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PARIS UNIVERSAL EXHIBITION, 1855.

CATALOGUE.

Published by Authority.

SECOND THOUSAND.

PRICE TEN PENCE, OR ONE FRANC.

EXPOSITION UNIVERSELLE
1855.

CATALOGUE

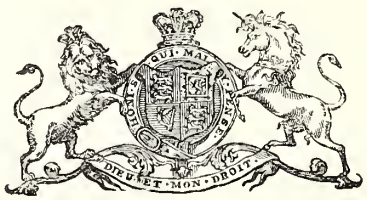
DES OBJETS EXPOSÉS

DANS

LA SECTION BRITANNIQUE DE L'EXPOSITION,

EN FRANÇAIS ET ANGLAIS;

AVEC DES PROSPECTUS, PRIX COURANTS, ETC., DES EXPOSANTS.

Publié par  l'Autorité.

LONDRES:
CHAPMAN ET HALL, 193 PICCADILLY.
1855.

PARIS UNIVERSAL EXHIBITION,
1855.

CATALOGUE

OF

THE WORKS EXHIBITED

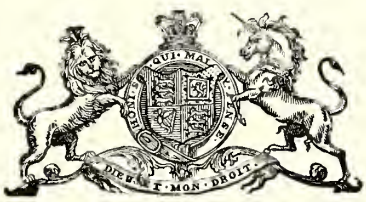
IN

THE BRITISH SECTION OF THE EXHIBITION,

IN FRENCH AND ENGLISH;

TOGETHER WITH

EXHIBITORS' PROSPECTUSES, PRICES CURRENT, &c.

Published by  Authority.

UNION COLLEGE
SCHENECTADY

LONDON:
CHAPMAN AND HALL, 193 PICCADILLY.
1855.

LONDON:

PRINTED BY W. CLOWES AND SONS, STAMFORD STREET,
AND CHARING CROSS.

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b.)

PREFACE.

BEFORE the British Goods were sent to Paris, a Catalogue of the proposed Exhibitors' Names was published, which was arranged according to the system of Classification adopted by the Imperial Commission, and a Rotation Number was given to every Exhibitor. This was found of great service in the transport, receipt, and arrangement of the Goods.

The French authorities, however, according to their own views, have preferred to re-arrange this Catalogue, change the classification of the Exhibitors, placing them alphabetically in Sections, and assign different Numbers. As it would have been inconvenient to have had the French International Catalogue in one form, and a British edition in another, the latter has been changed to agree with the French version, except in those cases where Exhibitors' names have been removed in consequence of resignation. The French numbering has been adopted, and the original Rotation Numbers have been placed at the end of the British entries. Consequently, if any British Exhibitors find their goods unexpectedly in some new places, as for instance, in Class 2, they will bear in mind that the responsibility rests wholly with the French authorities, and that the British authorities have simply followed their arrangements.

The greater detail which is to be found in some of the French entries arises from additional information furnished direct by Exhibitors to the Imperial Commission.

Names of Exhibitors are sometimes repeated, where their goods belong to two or more Classes. Thus, Messrs. Crosskill's are entered in Class 3, No. 73, as exhibiting *Agricultural Tools;* in Class 5, because they exhibit a *Cart;* and in Class 6, on account of a *Reaping Machine.* These entries are not re-numbered, but have * before them.

Exhibitors are requested to communicate any errors of names, address, &c., direct to the Printers, Messrs. CLOWES & SONS, Stamford-street, Blackfriars, London.

LOCALITIES OF THE CLASSES.

SYSTEM OF CLASSIFICATION ADOPTED BY THE IMPERIAL COMMISSIONERS.

Group I.	I. Mining and Metals	*Annexe, East End.*
	II. Hunting, Shooting, &c.	*Palace, East End.*
	III. Agriculture	*Annexe, East End, Ground Floor and Gallery.*
Group II.	IV. Machinery—Prime Movers	*Annexe, West End.*
	V. Machinery for Transport	*Annexe, West End.*
	VI. Manufacturing Machinery and Tools	*Annexe, West End.*
	VII. Machinery for Weaving, &c.	*Annexe, West End.*
Group III.	VIII. Philosophical Instruments	*Palace, South Gallery.*
	IX. Heat, Light, and Electricity	*Palace, Ground Floor and South Gallery.*
	X. Chemicals, Paper, Leather, &c.	*Annexe, East End.*
	XI. Alimentary Substances	*Annexe, East End.*
Group IV.	XII. Pharmacy, Medicine	*Palace, South Gallery.*
	XIII. Naval and Military Arts	*Palace, East End.*
	XIV. Civil Engineering	*Palace, East End.*
Group V.	XV. Steel	*Palace, South Side.*
	XVI. General Metal-work	*Palace, South Side.*
	XVII. Precious Metals	*Palace, South Gallery.*
	XVIII. Glass and Pottery	*Palace, South Side.*
Group VI.	XIX. Cotton	*Palace, South Side.*
	XX. Woollen and Worsted	*Palace, South Side.*
	XXI. Silk	*Palace, South Gallery.*
	XXII. Flax and Hemp	*Palace, South and East Sides.*
	XXIII. Hosiery, Carpets, and Lace	*Palace, Ground Floor and South Gallery.*
Group VII.	XXIV. Furniture and Decoration	*Palace, South Side.*
	XXV. Clothing, Fancy Articles, &c.	*Palace, South Gallery.*
	XXVI. Designs, Letter-press, Photography	*Palace, South Gallery.*
	XXVII. Musical Instruments	*Palace, East End.*

OUVERTURE DE L'EXPOSITION UNIVERSELLE.

Paris, 15 *Mai.*

Le prince Napoléon, se tournant vers l'Empereur, lui a adressé le discours suivant :

" Sire,

" L'Exposition universelle de 1855 s'ouvre aujourd'hui, et la première partie de la tâche que vous nous avez donnée est remplie.

" Une Exposition universelle, qui en tout temps eût été un fait considérable, devient un fait unique dans l'histoire par les circonstances au milieu desquelles celle-ci se produit. La France, engagée depuis un an dans une guerre sérieuse à 800 lieues de ses frontières, lutte avec gloire contre ses ennemis. Il était réservé au règne de Votre Majesté de montrer la France digne de son passé dans la guerre, et plus grande qu'elle ne l'a jamais été dans les arts de la paix. Le peuple francais fait voir au monde que toutes les fois que l'on comprendra son génie et qu'il sera bien dirigé, il sera toujours la grande nation.

" Permettez-moi, Sire, de vous exposer, au nom de la commission impériale, le but que nous avons voulu atteindre, les moyens que nous avons employés, et les résultats que nous avons obtenus.

" Nous avons voulu que l'Exposition universelle ne fût pas uniquement un concours de curiosité, mais un grand enseignement pour l'agriculture, l'industrie et le commerce, ainsi que pour les arts du monde entier. Ce doit être une vaste enquête pratique, un moyen de mettre les forces industrielles en contact, les matières premières à portée du producteur, les produits à portée du consommateur ; c'est un nouveau pas vers le perfectionnement ; cette loi qui vient du Créateur, ce premier besoin de l'humanité et cette indispensable condition de l'organisation sociale.

" Quelques esprits ont pu s'effrayer d'un pareil concours, et ont naguère cherché à le retarder ; mais vous avez voulu que les premières années de votre règne fussent illustrées par une Exposition du monde entier, suivant en cela les traditions du premier Empereur, car l'idée d'une Exposition est éminemment française. Elle a progressé avec le temps, et de nationale elle est devenue universelle.

" Nous avons suivi nos voisins et alliés, qui ont eu la gloire du premier essai ; nous l'avons complété par l'appel aux beaux-arts.

" Votre Majesté a constitué la commission impériale le 24 décembre 1853. Notre premier travail a été le règlement général que vous avez approuvé par décret du 6 avril, qui est devenu la loi constitu-

OPENING OF THE UNIVERSAL EXHIBITION.

Paris, *May* 15.

Prince Louis Napoleon's address at the opening on 15th May :—

" Sire,

" The Universal Exhibition of 1855 is opened to-day, and the first part of the task intrusted to us is accomplished. A universal exhibition, which at any time would have been a great fact, becomes unique in history from the circumstances under which it is produced. France, engaged in a serious war at 800 leagues from her frontiers, struggles with glory against her enemies. It was reserved for the reign of your Majesty to show France worthy of the past in war and greater than ever she was in the arts of peace. The French people show the world that whenever its genius is understood and is well directed it will always be the great nation.

" Allow me, Sire, to explain to you, in the name of the Imperial commission, the object we had in view, the means which we have employed, and the results which we have obtained.

" We wished that the Universal Exhibition should not be exclusively an attraction for the curious, but a great school for agriculture, industry, and commerce, and for the arts of the whole world. It is to be a great practical investigation—a means for bringing the powers of industry into contact, of placing raw materials within reach of the producer, the produce within reach of the consumer ; it is another step towards perfection—that law which emanates from the Creator—that first want of humanity, and that indispensable condition of social organization.

" Some minds may have been startled at such a concourse, and wished not long since to adjourn it, but it was your wish that the first years of your reign should be rendered famous by an Exhibition of the whole world, following therein the traditions of the first Emperor, for the idea of an Exhibition is eminently French ; it has progressed with time, and, from being national, it has become universal.

" We have followed our neighbours and allies, who have had the glory of the first attempt ; we have completed it by an appeal to the fine arts.

" Your Majesty constituted the Imperial Commission on the 24th of December, 1853. Our first labour was the general regulations, which you approved by a decree of the 6th of April, which has become the constituent law of the Exhibition, and which comprises a new classification, which we believe more rational.

tive de l'Exposition, et qui comprend une nouvelle classification que nous croyons plus rationnelle.

" L'accord le plus parfait a régné entre les membres de la commission, et je suis d'autant plus heureux de le constater, que les tendances, les opinions et les points de départ de mes collègues étaient très différens. La diversité d'opinions nous a éclairés sans nous entraver, l'importance de notre mission a écarté tout dissentiment.

" Deux précédens nous ont naturellement guidés : les Expositions françaises et l'Exposition universelle de 1851. Quelques modifications ont cependant été apportées ; elles sont toutes dans un sens de liberté et de progrès.

" Nous avons établi pour l'Exposition un tarif douanier exceptionnel d'où le mot de *prohibition* a été effacé. Tous les produits exposables sont entrés en France avec un droit *ad valorem* de 20 pour 100. Nous avons trouvé le plus bienveillant concours dans la direction des douanes, et j'espère que nos hôtes étrangers emporteront une bonne impression de leurs relations avec cette administration.

" La même libéralité a été appliquée dans les transports, dont nous avons pris les frais à notre charge depuis la frontière.

" Enfin, par une innovation hardie qui n'avait pas été faite à Londres, les produits exposés peuvent porter l'indication de leur prix, qui devient ainsi un élément sérieux d'appréciation pour les récompenses. Tous ceux qui s'occupent des questions industrielles comprendront combien ce principe est important et quelles peuvent en être les conséquences, malgré certaines difficultés d'application.

" Dans les beaux-arts, deux systèmes se présentaient : fallait-il faire une Exposition pour les œuvres, sans se préoccuper de savoir si les artistes étaient morts ou vivants, ou pour les artistes, en n'admettant que les œuvres des vivants ?

" La première idée a été soutenue ; elle répondait peut-être mieux au programme qui voulait un concours de l'art au dix-neuvième siècle ; elle n'a cependant pas été adoptée à cause des difficultés d'exécution qu'elle soulevait.

" Nous avons accueilli sans révision toutes les œuvres des artistes étrangers admises par leurs comités ; nous n'avons été sévères que pour nous-mêmes. La tâche d'un jury d'admission est difficile et ingrate, surtout dans une Exposition universelle, où les principes des Expositions ordinaires n'étaient plus applicables, et où le jury avait à choisir les armes de la France dans cette lutte qui s'agrandissait.

" L'insuffisance du bâtiment nous a suscité des difficultés sérieuses. La construction d'un édifice spécial ayant été écartée, il a fallu nous installer dans le Palais de l'Industrie, dont les inconvéniens viennent de ce qu'il n'a pas été établi en vue d'une Exposition aussi vaste.

" Nous tenons à le dire hautement à Votre Majesté et à l'Europe, le concours des exposants a été si grand, que la place nous a manqué, malgré les 117,840 mètres carrés de superficie, sur lesquels 53,900 mètres carrés de surface exposable.

" Obligés de recommander aux comités d'admis-

" The most perfect harmony has prevailed among the members of the commission, and I am the more happy in stating it, as the tendencies, opinions, and views of my colleagues were very different. The diversity of opinion enlightened us without impeding us—the importance of our mission put aside all dissent.

" Two precedents naturally guided us—the French exhibitions and the Universal Exhibition of 1851. Some modifications were, however, adopted ; they are all in the direction of freedom and progress.

" We established for the Exhibition an exceptional Customs' tariff, from which the word *prohibition* was erased. All exhibitable produce entered France at an *ad valorem* duty of 20 per cent. We found the most hearty assistance in the direction of the Customs, and I trust that our foreign guests will take away with them a good impression of their relations with that administration.

" The same liberality was shown with regard to transport, the expense of which was defrayed by us as far as the frontier.

" Finally, by a bold innovation, which was not made in London, the produce exhibited may be labelled with its price, thus becoming an important element of appreciation for reward. All who are engaged in commercial pursuits will understand the importance of this principle, and the consequences which may result therefrom, notwithstanding certain difficulties of application.

" In the Fine Arts two systems offered themselves. Was it to be an exhibition of works of art, without regard to whether the artists were living or dead, or for artists, admitting only the works of the living ?

" The first idea was supported ; it responded better, perhaps, to the programme which demanded an assemblage of art in the nineteenth century. It was not, however, adopted, because of the difficulties of execution to which it gave rise.

" We have accepted, without revision, all the works of foreign artists admitted by their committees ; we have only been severe towards ourselves. The task of a jury of admission is a difficult and an ungrateful one, especially in a universal exhibition, where the principles of ordinary exhibitions were no longer applicable, and where the jury had to select the weapons of France for this struggle, which was growing in dimensions.

" The insufficient size of the building caused us serious difficulties. The construction of a special edifice having been set aside, it was necessary for us to instal ourselves in the Palace of Industry, the inconvenience of which arises from the fact, that it was not established with a view to so vast an exhibition.

" We have to declare publicly to your Majesty and to Europe that the concourse of exhibitors was so great that we stood in need of room, notwithstanding the 117,840 square metres of surface, of which 53,900 square metres could be made available for exhibiting.

" Obliged to recommend great reserve to the committees of admission, we could not depart from it until a little more room was placed at our disposal. This want of *ensemble* at the commencement of operations was detrimental to the regularity and

sion une grande réserve, nous ne pouvions nous en départir qu'à mesure qu'il nous était permis de disposer d'un peu plus d'emplacement; ce défaut d'ensemble dans le commencement des opérations a nui à la régularité et à la justice des admissions, et a rendu encore plus difficile la tâche des comités locaux, auxquels je me plais à rendre hommage pour le concours qu'ils nous ont prêté.

"Des retards fâcheux ont eu lieu dans les travaux, malgré l'activité et l'intelligence de leur direction; mais on avait vraiment trop présumé de ce qu'il était possible de faire. Ce vaste et splendide palais a été construit en moins de deux ans et n'est pas encore complètement terminé; nous avons pensé que le meilleur moyen d'en presser l'achèvement était d'y installer l'Exposition, dont l'ouverture ne pouvait plus être retardée.

"La séparation du bâtiment affecté aux beaux-arts a tout d'abord été reconnue indispensable, et cette construction provisoire a été achevée à l'epoque fixée. A mesure que l'Exposition prenait du développement, on décidait une construction nouvelle. Pendant que j'étais en Orient pour le service de la France et de Votre Majesté, une annexe de 1,200 mètres de long sur le bord de la Seine a été établie. Cette annexe, qui contient les machines en mouvement, sera terminée dans quinze jours.

"Depuis quelques semaines seulement le Panorama a été reconnu indispensable; il doit être entouré d'une vaste galerie qui mettra en communication le bâtiment principal avec l'annexe, et qui sera prête avant un mois.

"Alors l'Exposition sera complète.

"Dans notre pays, c'est habituellement le gouvernement qui se charge de toutes les grandes entreprises; pour arrêter l'exagération de cette tendance, Votre Majesté a donné un grand essor à l'industrie privée. La Compagnie à laquelle l'exploitation du palais de l'Industrie a été concédée devait trouver dans le prix d'entrée la rémunération du capital employé à la construction; de là la nécessité d'un prix d'entrée. Nous avons cependant sauvegardé autant que possible les intérêts du peuple en obtenant que les dimanches l'entrée fût réduite à 20 centimes.

"Nous pouvons dès à présent, grâce au catalogue fait avec une grande activité, indiquer le nombre des exposans. Il ne s'élèvera pas à moins de 20,000, dont 9,500 de l'empire français et 10,500 environ de l'étranger.

"La puissance que nous combattons elle-même n'a pas été exclue. Si les industriels russes s'étaient présentés en se soumettant aux règles établies pour toutes les nations, nous les aurions admis, afin de bien fixer la démarcation à établir entre les peuples slaves qui ne sont point nos ennemis, et ce gouvernement dont les nations civilisées doivent combattre la prépondérance.

"A la fin de l'Exposition, quand nous proposerons à Votre Majesté les récompenses à décerner, nous pourrons juger les résultats de cette grande Exposition, que nous prions Votre Majesté de déclarer ouverte."

justice of admissions, and rendered the task of the local committees still more difficult; and I tender them our thanks for the assistance they have given us.

"Lamentable delays took place in the works, notwithstanding the activity and intelligence of the directors, but, in fact, too much had been presumed upon. This vast and splendid palace was constructed in less than two years, and is not yet completely finished; we thought that the best way to hasten its completion was to instal the Exhibition, the opening of which could brook no longer delay.

"The separation of the building devoted to the Fine Arts was at the very first recognized as indispensable, and that provisional construction was ready at the time fixed. As the Exhibition developed itself a new construction was decided upon. While I was in the East, in the service of France and of your Majesty, a wing 1,200 metres in length on the banks of the Seine was built; this addition, which contains the machinery in motion, will be finished in a fortnight.

"It was only within the last few weeks that the Panorama was deemed indispensable; it is to be surrounded by a vast gallery, which will connect the main building with the new wing, and which will be ready within a month.

"The Exhibition will then be complete.

"In our country it is usually the Government which undertakes all great enterprises; to stop the exaggeration of that tendency your Majesty has given a great impulse to private industry. The Company to whom the management of the Palace of Industry was conceded were to find the return of their capital in the price of admission; hence the necessity of a price of admission. We have, however, provided as much as possible for the interests of the people, by stipulating that on Sundays the price of admission shall be reduced to 20 centimes.

"We can already indicate, thanks to the catalogue, compiled with great activity, the number of exhibitors. It will not be less than 20,000, of which number 9,500 belong to the French empire, and about 10,500 to foreign States.

"The very Power with which we are at war has not been excluded. If Russian producers (*industriels*) had presented themselves, submitting to the established regulations for all nations, we should have admitted them, so as to define distinctly the demarcation to be established between the Sclavonic races, who are not our enemies, and that Government the preponderance of which it is the duty of civilized nations to combat.

"At the close of the Exhibition, when we shall propose to your Majesty the prizes to be awarded, we shall be able to judge of the results of this great Exhibition, which we beg of your Majesty to declare open."

L'Empereur a répondu à S. A. I. :

" MON CHER COUSIN,

" En vous plaçant à la tête d'une commission appelée à surmonter tant de difficultés, j'ai voulu vous donner une preuve particulière de ma confiance. Je suis heureux de voir que vous l'avez si bien justifiée. Je vous prie de remercier, en mon nom, la commission des soins éclairés et du zèle infatigable dont elle a fait preuve. J'ouvre avec bonheur ce temple de la paix qui convie tous les peuples à la concorde."

The Emperor's reply :—

" My dear Cousin,—In placing you at the head of a commission which had so many difficulties to overcome, I wished to give you a particular proof of my confidence. I am happy to find that you have so fully justified it. I beg of you to thank the Commission in my name for the enlightened care and indefatigable zeal it has displayed.

" I open with happiness this Temple of Peace, which invites all nations to concord."

Board of Trade (Department of Science and Art).

THE RIGHT HONOURABLE
THE LORDS OF THE COMMITTEE OF PRIVY COUNCIL FOR TRADE.

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BRITISH JURORS.

CLASS I. MINING AND METALLURGY.

JURORS.

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WARINGTON SMYTH, F.G.S., Professor of Mining and Mineralogy in the Government School of Mines, and Inspector of Mines to the Duchy of Cornwall.

CLASS II. FORESTRY, &c.

JUROR.

SIR W. HOOKER, F.R.S., Director of the Royal Gardens, Kew.

CLASS III. AGRICULTURE.

JUROR.

EVELYN DENISON, M.P., Member of the Royal Agricultural Society of England.

SUPPLEMENTARY JURORS.

JOHN WILSON, F.R.S.E., Professor of Agriculture in the University of Edinburgh.
C. E. AMOS, Consulting Engineer to the Royal Agricultural Society of England.

CLASS IV. MACHINERY IN GENERAL AS APPLIED TO INDUSTRY.

JURORS.

GEORGE RENNIE, C.E., F.R.S.

CLASS V. RAILWAY MACHINERY, COACHES, AND HARNESS.

JURORS.

T. R. CRAMPTON, C.E., Engineer to the Submarine Telegraph between France and England—for Railway Machinery.
Rt. Hon. LORD SHELBURNE, M.P.—for Coaches and Harness.

CLASS VI. MACHINERY FOR WORKSHOPS.

JUROR.

W. FAIRBAIRN, C.E., F.R.S., Corresponding Member of the French Institute, and Juror in 1851.

CLASS VII. MACHINERY FOR WOVEN FABRICS.

JUROR.

Rev. R. WILLIS, M.A., F.R.S., Professor of Natural Philosophy, Cambridge, and of Mechanics in the Government School of Mines, and Juror in 1851 ; aided by the Jurors for Woven Fabrics.

CLASS VIII. ARTS RELATING TO THE EXACT SCIENCES, AND TO INSTRUCTION.

JURORS.

SIR DAVID BREWSTER, F.R.S., Member of the French Institute, and Deputy-Chairman and Reporter of the Jury of Philosophical Instruments in 1851.

J. Carter, Alderman of the City of London, and Chairman of the Metropolitan Committee of Watch and Clockmakers.

Supplementary Juror.

Dr. Tyndal, F.R.S., Professor of Physics in the Royal Institution of Great Britain.

Class IX. HEAT, LIGHT, AND ELECTRICITY.

Jurors.

C. Wheatstone, F.R.S., Professor of Experimental Philosophy, King's College, Corresponding Member of the French Institute.

Dr. Neil Arnott, F.R.S.

Class X. CHEMICAL MANUFACTURES, INCLUDING PAPER.

Jurors.

Thomas Graham, F.R.S., Master of the Mint, Corresponding Member of the French Institute, and Deputy-Chairman and Reporter of the Chemical Jury in 1851.

Warren De la Rue, F.R.S., Reporter and Juror in the Exhibition of 1851.

Class XI. ALIMENTARY SUBSTANCES.

Juror.

R. Owen, F.R.S., Corresponding Member of the French Institute, and Chairman of the Jury on Alimentary Substances in the Exhibition of 1851.

Class XII. HYGIENE, PHARMACY, SURGERY, MEDICINE.

Jurors.

Sir Joseph Olliffe, Physician to the British Embassy in Paris.

Dr. Royle, F.R.S., President, Professor of Materia Medica in King's College, Scientific Referee to the H.E.I.C. on the Vegetable Substances of India, and Juror in 1851.

Supplementary Juror.

Edwin Chadwick, C.B., late member of the General Board of Health.

Class XIII. NAVAL AND MILITARY ARTS.

Jurors.

Lieutenant-General Sir John Burgoyne, G.C.B., Inspector-General of Fortifications, and Juror in 1851.

J. Scott Russell, F.R.S., Shipbuilder, late Secretary to the Royal Commission for the Exhibition of 1851.

Class XIV. CIVIL ENGINEERING.

Juror.

Joseph Locke, M.P., C.E., F.R.S., Civil Engineer.

Supplementary Juror.

Charles Manby, C.E., Secretary to the Institution of Civil Engineers.

Class XV. STEEL AND ITS PRODUCTS.

Juror.

T. Moulson, the Master Cutler of Sheffield.

Supplementary Juror.

J. J. Mechi, F.S.A., Juror in the Exhibition of 1851.

Class XVI. GENERAL METAL WORK.

Jurors.

W. Bird, Deputy-Chairman of Jury on Iron, in the Exhibition of 1851.

Alfred Tylor, F.G.S., Manufacturer in London.

Class XVII. GOLDSMITHS' WORK, JEWELLERY, AND BRONZES.

Juror.

The Most Noble the Marquis of Hertford, K.G.

Class XVIII. GLASS AND POTTERY.

Juror.

J. Hartley, Manufacturer of Glass in Sunderland, and Medallist in 1851.

J. Webb, Juror for Furniture in 1851.

Supplementary Juror.

Dr. Hofmann, F.R.S., Professor of Chemistry to the Government School of Mines, and Juror and Reporter in the Exhibition of 1851.

Class XIX. COTTON PRINTING AND DYEING.

Jurors.

T. Bazley, President of the Chamber of Commeree, Manchester, one of Her Majesty's Commissioners for the Exhibition of 1851.

Walter Crum, F.R.S., Calico Printer and Bleacher, Glasgow.

Class XX. WOOLLEN AND WORSTED MANUFACTURES.

Jurors.

S. Addington, Woollen Merchant, London, and Reporter of the Jury on Woollen Cloths in the Exhibition of 1851.

Richard S. Butterfield, Merchant, of Bradford, Yorkshire.

Class XXI. SILK.

Juror.

T. F. Gibson, one of Her Majesty's Commissioners for the Exhibition of 1851.

Supplementary Juror.

T. Winkworth, Reporter to the Silk Jury in the Exhibition of 1851.

Class XXII. FLAX AND HEMP.

Juror.

Erskine Beveridge, Linen Manufacturer, Dunfermline.

Supplementary Juror.

James MacAdam, jun., Secretary of the Royal Society for the Promotion and Improvement in the Growth of Flax in Ireland, and Honorary Secretary to the Belfast Committee for the French Exhibition.

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Jurors.

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Class XXIV. FURNITURE AND DECORATION.

Jurors.

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Digby Wyatt, Architect, Secretary to the Executive Committee of the Exhibition of 1851.

Class XXV. MISCELLANEOUS AND ORNAMENTAL OBJECTS.

Juror.

Right Hon. Lord Ashburton, F.R.S., President, Deputy Chairman of Jury on Furniture in the Exhibition of 1851.

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Juror.

Charles Knight, Publisher.

Supplementary Juror.

Thomas De la Rue, Chairman of the Metropolitan Committee of Paper Makers and Stationers for the Paris Exhibition, and Juror in 1851.

Class XXVII. MUSIC.

Juror.

Right Hon. Sir George Clerk, Bart., F.R.S., President of the Royal Academy of Music.

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UNITED KINGDOM OF GREAT BRITAIN AND IRELAND.

Note.—The locality of each Exhibitor is shown by the accompanying letters:—P. Palais. P. G. Palais Gallery. A M. Annexe Machinery. A. E. Annexe east. *A. e. b. Annexe east basement. A. e. Annexe east gallery.*

PRODUITS DE L'INDUSTRIE.

Class 1. Mines and Metallurgy.

1re CLASSE.
Art des Mines et Métallurgie.

1re Section. *Statistique et documents généraux.*

A. E. 1 Austin, Thomas, *à Bristol, Somerset*, A.—Produits minéraux du district.

A. E. 2 Conseil du duche de Cornouailles, par S.-H. Gardiner et W. Smyth.—Minerais de cuivre, d'étain et de plomb. Kaolin. Houille. Echantillons choisis pour faire connaître les gisements des minéraux utiles qui se trouvent dans les mines de S. A. R. le prince de Galles, duc de Cornouailles.

P. G. 3 De La Beche, Sir H. T., *à Londres*, A.—Cartes et coupes géologiques.

A. E. 4 Granville, Comte, *à Hanley, Stafford*, A.—Vues photographiques des travaux de mines de fer et de houille.

P. G. 5 Griffith, Dr., *à Dublin*, I.—Carte géologique de l'Irlande.

A. E. 6 Institut Philosophique de Bristol (Etheridge, R.), *à Bristol, Somerset*, A.—Minerais des environs de Bristol: minerais de fer, de plomb; calamine; étain oxydé du terrain devonien, dans sa gangue; chaux; quartz; pierres de construction.

P. G. 7 Knipe, J.-A., *à Caldwell, Leicester*, A.—Carte géologique des îles britanniques et d'une partie de la France.

A. E. 8 Mining Record Office (directeur, Sir H. T. De la Beche), *à Londres*, A.—Cartes géologiques avec coupes. Plans de mines avec coupes; statistiques des richesses minérales du Royaume-Uni.

A. E. 9 Musee de l'Industrie de l'Irlande, *à Dublin*. (Sir Robert Kane, directeur.)—Spécimens faisant connaître le gisement géologique et la valeur industrielle des combustibles minéraux de l'Irlande, ainsi que les argiles et des minerais de fer qui y sont associés. (Voir cl. 3.)

P. G. 10 Mylne, R.-W., *à Londres*, A.—Carte géologique, modèle de carte.

A. E. 11 Renfrees, Th., *à Penzanee, Cornwall*, A.—Collection de minéraux.

2e Section. *Procédés généraux d'exploitation.*

A. E. 14 Reid, S.-P., *à Chester-le-Street*, A.—Plan en relief de l'exploitation de la mine de houille de Pelton.

A. E. 15 Wales, J., *à Hetton Colliery, Durham*, A.—Plan en relief de l'exploitation de la mine de houille de Hetton.

3e Section. *Procédés généraux de métallurgie.*

4e Section. *Extraction et préparation des Combustibles minéraux.*

A. E. 17 Anthracite Coal Company (Arthur, J.), *à Llanelly, Carmarthen*, A.—Anthracites.

A. E. 18 Anthracite Steam Fuel Company (Livingstone, Al. Speid), *à Llanelly, Carmarthen*, A.—Briquettes de charbon bitumineux à l'usage des forges, de la marine et des locomotives.

19 Busson du Maurier, L., *à Londres*, A.—Coke composé de tourbe et de houille.

20 Comité de Sunderland, *à Sunderland, Durham*, A.—Minéraux des houillères de la Wear.

INDUSTRIAL DIVISION.

CLASS I.
Mines and Metallurgy.

Section 1. *General Statistics.*

A. E. 1 Austin, Thomas, 11 *Trinity-street, Bristol.* Mineral produce of the district, &c. 30

A. E. 2 Cornwall, Duchy of, through J. H. Gardiner, Auditor of the Duchy, and W. W. Smyth, 28 *Jermyn Street, London.* Copper, lead, coal, and other minerals and metals found in the duchy. 37

P. G. 3 De la Beche, Sir H. T., *Jermyn-street, London.* Geological plans and sections. Ia

A. E. 4 Granville, Earl, *Hanley, Staffordshire.* Photographs, &c., of coal and iron workings. Ib

P. G. 5 Griffith, Dr., *Dublin.* Geological map of Ireland. 805

A. E. 6 Etheridge, R., for the Bristol Philosophical Institution, *Bristol, Somersetshire.* Native or local minerals, iron, calamine, lead, lime, quartz, economic or building stone of the neighbourhood, oxide of tin (Devon) in the lode. 33

P. G. 7 Knipe, James A, 6 *Caldwell, Leicester* Geological map of the British Isles and part of France. 801

A. E. 8 Mining Record Office, *London* (through Sir Henry de la Beche, Director). Statistics and plans of the mineral districts of the United Kingdom. 802

A. E. 9 Museum of Irish Industry, through Sir Robert Kane, *Dublin.* Geological specimens. (See cl. 3.) 79

P. G. 10 Mylne, R. W., 8 *Regent-street, London.* Geological map and model. 804

A. E. 11 Renfrees, Thomas, *Queen-square, Penzanee.* Mineralogical specimens. 35

Section 2. *Modes of working Mines.*

A. F. 14 Reid, S. P., *Pelton Colliery, Chester-le-Street.*—Model of a coal mine.

A. F. 15 Wales, John, *Hetton Colliery.* Model of a coal mine. 470

Section 3. *Modes of preparing Metals.*

Section 4. *Coals and Combustible Minerals.*

A. E. 17 Anthracite Coal Company (Arthur, John), *New Dock, Llanelly, Carmarthenshire.* Anthracite coal. 1

A. E. 18 Anthracite Steam Fuel Company (Livingstone, A. S.), *Phœnix Works, Llanelly, Carmarthenshire.* Anthracite steam-fuel. 2

A. E. 19 Busson du Maurier, L., 5 *Barge-yard, Buchlersbury. London.* A compound coke made of peat and coal. 4

A. E. 20 Sunderland Local Committee, *Sunderland.* Specimens of minerals from the coal-field of the Wear. 8

E. 21 Ministere du Commerce (Departement des Sciences et Arts), *à Londres*, A.—Collection des houilles du Royaume-Uni, montrant les différentes qualités propres aux usages domestiques, à la génération de la vapeur, à la production du gaz, aux fournaises et aux operations manufacturières en général. Aussi, des spécimens de coke pour les machines locomotives et les fonderies, et de la houille brevetée et *peat fuels*, rassemblés et arrangés par H. Tracy Read.

21 Board of Trade (Department of Science and Art)' *London*. Collection of Coals of the United Kingdom, embracing the various qualities of coal suitable for domestic purposes, steam generation, the production of gas, furnace use, and general manufacturing purposes; also samples of locomotive and foundry coke, and patent coal and peat fuels. Collected and arranged by H. Tracy Read.

ENGLAND.

THE NORTHUMBERLAND COAL FIELD.

John Bowes and Partners.
Northumberland and Durham Company.
G. H. Ramsay.
High Taylor and Partners (Owners of the East Holywell Colliery).
M. Plummer and Partners (Owners of the Holywell Colliery).
H. T. Gordon Longridge.
Edmund Latimer.
William Hunter.
E. J. Lamb and Partners.
Joseph Lamb and Partners.
J. Harrison and Company.
John Carr and Company.
W. Barkus, Jun.
T. Davison and Partners.
The Bedlington Coal Company.

THE DURHAM COAL FIELD.

J. Bowes and Partners. (The Northumberland and Durham Coal Company.)
James Joicey.
Wm. Bell and Company.
Bolckow and Vaughan.
John Carr and Partners.
The Right Hon. the Earl of Durham.
William Hunter.
The Right Hon. the Lord Howden.
Thomas Hedley and Brothers.
D. Jonarsohn and George Elliott.
R. Sheraton Johnson and Villiers C. V. Surtees.
The Most Hon. Frances Anne Vane, Marchioness of Londonderry.
James Morrison and Partners.
E. M. Perkins.
Joseph Pease and Partners.
John Robson and Ralph Ward Jackson.
Thomas Richardson.
Henry Stobart and Company.
Strakers and Love.
Nicholas Wood.
The East Hetton Coal Company.
The Haswell Coal Company.
The South Hetton Coal Company.
The Thornley Coal Company.
The Kimdon Grange Coal Company.

THE YORKSHIRE COAL FIELD.

The Right Hon. Earl Fitzwilliam.
The Executors of Robert C. Clarke.
Hird, Dawson, and Hardy.
The Executors of Samuel Thorp.
John Woodhouse Day.
John Rhodes.
Newton, Chambers, and Company.
Beets and Lofthouse.
R. Sorby and Company.
The Sheffield Coal Company.
Hounsfield, Wilson, Dunn, and Jeffcock.

THE LANCASHIRE COAL FIELD.

W. H. Brancker and Company.
David Bromilow and Company.
Bournes and Robinson.
Richard Evans and Company.
John and Thomas Johnson.
Thomas Gidlow.
Samuel Stock.
The Right Hon. the Earl of Crawford and Balcarres.
The Ince Hall Coal Company.
The Moss Hall Coal Company.
The Sankey Brook Coal Company.

THE DERBYSHIRE COAL FIELD.

The Butterley Company.
James Oakes and Company.
E. F. Whittingstall.

THE NOTTINGHAMSHIRE COAL FIELD.

The Butterley Company.

THE SOUTH STAFFORDSHIRE COAL FIELD.

Daniel Geo. Round.

THE SHROPSHIRE COAL FIELD.

The Coalbrook Dale Company.

THE LEICESTERSHIRE COAL FIELD.

Edward M. Green.

THE GLOUCESTERSHIRE COAL FIELD.

Edward Protheroe.

THE DEVONSHIRE COAL FIELD.

The Bideford Anthracite Mining Company.

NORTH WALES.

THE ANGLESEA COAL FIELD.

The Anglesea Coal Company.

THE FLINTSHIRE COAL FIELD.

Edward Oakley.

THE DENBIGHSHIRE COAL FIELD.

The Brymbre Company.

SOUTH WALES.

THE PEMBROKESHIRE COAL FIELD.

Jones, Sells, and Company.

CARMARTHENSHIRE COAL FIELD.

Daniel Watney.
Sims, Williams, Neville, and Company.
The Llangennich Coal Company.
C. G. Bateman.
Jones, Sells, and Company.

THE MONMOUTHSHIRE COAL FIELD.

The Abercarn Collieries Company.
T. P. and D. Price.
John Vipond.
John Russell.
The Risca Coal Company.
Thomas Powell.

GLAMORGANSHIRE COAL FIELD.

David Williams.
W. Pegg and Company.
Thomas Powell.
Penrose and Starbuck.
John Mixon and Company.
The Neath Abbey Coal Company.
The Lletly Skenkin Coal Company.
James and Aubry.
Anthony Hill.
The Gellia Coal Company.
The Gladly Iron and Coal Company.
David Davis.
Carr Brothers and Company.
Starling, Benson, and C. H. Smith.
The Aberdare Coal Company.
J. W. Lyon.

SCOTLAND.

THE FIFESHIRE COAL FIELD.

G. W. M. Henderson.
T. Spowart and Company.
Right Hon. the Earl of Elgin.

THE STIRLINGSHIRE COAL FIELD.

The Grangemouth Coal Company.

THE LINLITHGOW COAL FIELD.

James Russell and Son.

THE LANARKSHIRE COAL FIELD.

W. Murray and the Grangemouth Coal Company.

THE AYRSHIRE COAL FIELD.

Allan, Gilmore, and Company.
Archibald Kenneth.

PATENT COAL AND PEAT FUELS.

1. The Patent Fuel Company (Warlich's Patents).

2. The Lessees of Wylam's Patent Fuel.
3. James W. Lyon.
4. F. Bankart and Sons (Rees's Patent).
5. Gwynne and Company.

IRELAND.

LEINSTER COAL FIELD, DISTRICT OF CASTLECOMER.

Bawnyarrow, or Yarrow Colliery.
Old Lordship Colliery.
District of Donane.
Geneva Colliery, County Carlow.

22 Morgan, R., et fils, *à Llanelly, Carmarthen*, A.—Anthracite.

23 Murray, W., *à Glasgow, Lanark*, E.—Houille, minerai de fer. Pierre calcaire.

24 Myers et Cie, *à Saundersfoot, près de Tenby*, A.—Anthracite; briquettes de menus d'anthracite, l'un et l'autre brûlant sans fumée.

25 Strakers et Love, *à Newcastle-sur-Tyne*, A.—Charbons.

Annexe East.

5e Section. *Fontes et Fers.*

28 Bagot, Ed., *à Llanelly, Carmarthen*, A.—Minerais, métaux, principalement fer en barres, fonte, étain. Coupe géologique des gisements. Rails faits par une méthode spéciale. Modèle en bois de ces rails.

29 Blackwell, S.-H., *à Dudley, Worcester*, A.—Minerais de fer.

30 Bowling Iron Company, *à Bowling, près de Bradford, York*, A.—Fers malléables.

31 Carr, H., *à Peterborough, Warwick*, A.—Echantillons de fers des forges de Farnley, près de Leeds. (Voir cl. 5.)

8*a* Fers du Royaume-Uni, fournis par W. Bird et Cie; pour le commerce général des fers. Esquisses des sections de rails et fer forgé, par MM. Pow et Faweus; Jean Carr et Cie; G. Hooper, Weardale Iron Company; Losh, Wilson et Bell; Mounsey, Janson et Cie. Pour les districts de Northumberland, Durham, et York-Septentrional; et par le Monkland Iron Company, Robert Stewart et Cie; William Baird et Cie, administraires pour J. Wilson et Cie; Shotts Iron Company; W. Dixon et Cie; Portland Iron Company (par Wm. Colvin, Glasgow, agent); Addie, Miller et Rankine; Coltness Iron Company; Summerlee Iron Company; Dalmellington Iron Company; R. et W. Kennard pour les districts d'Ecosse au nord de la Tweed. Bolckow et Vaughan; B. Samuelson et Cie; et Samuel Hunter et Cie; pour le milieu et le sud de Yorkshire. Le Butterley Iron Company et H. B. Whitehouse pour Derbyshire. J. Bagnal et fils; New British Iron Company; E. Creswell et fils; W. Millington et Cie; J. et E. Walker; Tupper et Carr; Barrows et Hall; Midland Iron Company; J. Dawes et fils; J. Knight et Cie; Osier Bed Iron Company, pour les districts sud du Staffordshire et est du Worcestershire. Pour Shropshire, le Coalbrook Dale Iron Company, le comte de Granville et d'autres. Pour le nord de Staffordshire, le Mersey Iron and Steel Company; T. J. et H. Wood et Cie. Le New British Iron Company (Ruabon), pour la Galles du Nord. Cruttwell, Allies et Cie; Mæstig Iron Company; J. Lewis et Cie; Ebbw Vale Company; Anthony Hill; J. Biddulph; Llynoi Iron Company; Cwm Avon Iron Company; Rhymney Iron Company; Blaenavon Iron Company; Tredegar Iron Company; W. Crawshay et Cie; Dowlais Iron Company (par Guest et Cie); Pontypool Iron Company, pour la Galles du Sud et Monmouthshire (division est et bitumineux); et le Ystalyfera Iron Company et Yniscedwyn Iron Company, pour les districts ouest et anthraciferes de la Galles du Sud.

Annexe East.

31*a* Lloyd, R.-W., *à Birmingham*, A.—Minerais et métaux.

32 Macdonald, H., *à Newcastle, Staffordshire*, A.—Echantillons de fer.

32*a* Wingerworth Iron Company, *à Chesterfield*, A.—Spécimens de fers de forge.

TIPPERARY COAL FIELD.

Main Seam.
Under Seam.

MUNSTER COAL FIELD.

The Kantark Colliery, County Cork.

TYRONE COAL FIELD.

Coal Island Colliery.

CONNAUGHT COAL FIELD.

Gubbarudda Colliery, County Roscommon.
Meeneshama Colliery, County Roscommon.
Seltannaskeagh Colliery, County Leitrim.

22 Morgan, R., and Son, *New Dock, Llanelly*. Specimen of Anthracite or stone coal. 5

23 Murray, William, *Glasgow*. Coal, iron-stone, and limestone. 6

24 Myers and Company, *Saundersfoot, near Tenby, South Wales*. Anthracite coal, and manufactured fuel from the small of same—both smokeless. 7

25 Strakers and Love, *Newcastle-on-Tyne*. Coals. 9

Annexe East.

Section 5. *Iron.*

28 Bagot, E., *Llanelly, Carmarthenshire*. Minerals and metals, principally bars of iron. Geological section. Rails made on a new principle. Models in wood of the rails. 31

29 Blackwell, S. H., *Dudley*. Iron ores. 21

30 Bowling Iron Company, The, *Bowling, Bradford*. Specimens of iron. 22

31 Carr, H., *Peterborough, Warwick*. Specimens of iron from the Farnley Iron Works. (See cl. 5.)

8*a* Iron of the United Kingdom (through W. Bird, Esq.), contributed by Messrs. Wm. Bird and Co., for the General Iron Trade. Sketches of sections of rails and wrought iron, Messrs. Pow and Faweus, John Carr and Company, G. Hopper, Weardale Iron Company; Losh, Wilson, and Bell; Mounsey, Janson, and Company. From the Northumberland, Durham, and North Yorkshire District; and by the Monkland Iron Company, Robert Stewart and Company, William Baird and Company, Trustees of John Wilson and Company, Shotts Iron Company, William Dixon and Company, Portland Iron Company (per William Colvin, Glasgow, agent); Addie, Miller, and Rankine, Coltness Iron Company, Summerlee Iron Company, Dalmellington Iron Company, R. W. Kennard and Company. From the Iron Districts of Scotland, north of Tweed. Bolckow and Vaughan, B. Samuelson and Company, and Samuel Hunter and Company, from the Middle and South of Yorkshire; the Butterley Iron Company and H. B. Whitehouse, from Derbyshire; John Bagnall and Sons, New British Iron Company, E. Creswell and Sons, William Millington and Company; J. and E. Walker, Tupper, and Carr, Barrows and Hall, Midland Iron Company; John Dawes and Sons, John Knight and Company, Osier Bed Iron Company; from the South Stafford-hire and East Worcestershire Districts; the Coalbrook-dale Iron Company, Earl Granville and others, from Shropshire; the Mersey Iron and Steel Company, Thomas James and Henry Wood and Company, from North Staffordshire; the New British Iron Company (Ruabon), from North Wales District; Cruttwell, Allies, and Company, Mæstig Iron Company, John Lewis and Company, Ebbw Vale Company, Anthony Hill, John Biddulph, Llynoi Iron Company, Cwm Avon Iron Company, Rhymney Iron Company, Blaenavon Iron Company, Tredegar Iron Company, William Crawshay and Company, Dowlais Iron Company (per Guest and Company), Pontypool Iron Company, from the South Wales and Monmouthshire (East Division, bituminous); and from the Ystalyfera Iron Company, Yniscedwyn Iron Company, from the South Wales, Western, and Anthracite Districts. 20

Annexe East.

31*a* Lloyd, R. W., *Birmingham*. Ores and metals. 23

32 Macdonald, H., *Newcastle, Staffordshire*. Specimens of iron. 24

32*a* Wingerworth Iron Company, *Chesterfield*.—Samples of pig and bar iron. 25

6e Section. *Métaux communs (le Fer excepté).*

33 Argyle, le duc d', *à Inverary, Argyle*, E.—Nickel.
34 Bankart et Fils, *à Neath, Glamorgan*, A.—Minerai de cuivre; cuivre à l'état métallique. Combustible minéral.
34*a* Davey, W. H., *Cornouailles*, A.—La blende blanche.
35 Devonshire Great Consolidated Copper Mining Company (T. Morris, agent), A.—Minerais de cuivre.
36 English Copper Company (Gilbertson, W.), *à Taibach, Glamorgan*, A.—Cuivre.
37 Knight, F.-W., Membre du Parlement, *Wolverley House, Kidderminster*, A.—Minerais de cuivre et de plomb.

7e Section. *Métaux précieux.*

38 Collyer, R.-H., *à Ipswich, Suffolk*, A.—Modèle de machine pour le traitement des minerais d'or.
39 Sopwith, Thomas, *à Allenheads, Newcastle-sur-Tyne, Northumberland*, A.—Collection des minéraux et des minerais de mines de plomb argentifère.

8e Section. *Monnaies et Médailles.*

40 Wyon, B., 287 *Regent-street, à Londres*, A.—Monnaies et médailles.
40*a* Lincoln, W.-S., et fils, 128 *Blackfriars-road, à Londres*, A.—Monnaies et médailles.

9e Section. *Produits minéraux non métalliques.*

41 Clay et Newman, *à Droitwich, Worcester*, A.—Sel.
41*a* Costello, J., *Connemara*, I.—Revêtement de cheminée et table de toilette en marbre vert.
42 Gawkroger et Hynam, *à Londres*, A.—Terre à foulon à l'état brut; la même purifiée.
43 Hardcastle, G., *à Sunderland, Durham*, A.—Pierre à chaux.
44 Noak, W. et J., *à Droitwich, Worcester*, A.—Sel extrait d'eau de source salée. Sel brut pour les bestiaux. Dépôt formé dans les chaudières d'évaporation.
45 Pike, W. et J., *à Wareham, Dorset*, A.—Argiles pour la fabrication des poteries.
46 Rosser et Godson, *à Llanelly, Carmarthen*, A.—Argiles; minéraux.
47 Whiteway, Watts et Cie, *à Wareham, Dorset*, A.—Argiles à faïence des comtés de Dorset et de Devon.
48 Wilson, Sir Thomas M., bart., *à Blackheath, près de Londres*, A.—Sables et argiles pour la fonte des métaux et les fabriques de verre et de poterie.
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A. E. 157 Blackwell, S., *à Londres*, A.—Selles, brides et harnais, pour hommes, pour dames et pour l'armée. Objets de sellerie pour les courses.

158 Blyth, R., *à Londres*, A.—Selles de tout genre.

P. 159 Brace, H., *à Walsall, Stafford*, A.—Harnais. Objets de selleric; objets de quincaillerie pour les selliers.

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P. 161 Chawner et Newman, *à Walsall, Stafford*, A.—Selles; harnais; objets de quincaillerie propre à la selleric.

162 Clark, W., et fils, *à Leeds*, A.—Sellerie.

A. E. 163 Coe, E.-F., *à Londres*, A.—Eperons.

164 Cuff, R., *à Londres*, A.—Selles et harnais. Objets de selleric et de bourrellerie.

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166 Dunlop, J., *à Haddington, Lothian*. E.—Objets de bourrellerie et de sellerie pour les fermes.

A. E. 167 Ellam, Benjamin, *à Londres*, A.—Fouets de baleine avec montures d'or et d'argent.

168 Garden et fils, *à Londres*, A.—Sellerie.

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159 Brace, Henry, *Walsall*. Saddlery, and saddlers' ironmongery. 327 P.

160 Caistor, A. B., 7 *Baker-street, Portman-square, London*. Saddles. 328 A. E.

161 Chawner and Newman, *Walsall*. Saddlery, harness, and saddlers' hardware. 329 P.

162 Clark, W., and Sons, *Leeds*. Saddlery. 330

163 Coe, E. F., 15 *Pall Mall, London*. Spurs. 330 A. E.

164 Cuff, R., 18 *Cockspur-street, London*. Saddlery and harness. 331

165 Dugard, W., jun., *Upper Priory, Birmingham*. Harness and coach furniture. 321 P.

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171 Hawkins, John, *à Londres*, A.—Mors de bride; étriers, etc.

P. 172 Hill freres, *à Walsall, Stafford*, A.—Mors étriers, éperons et autres objets de quincaillerie pour la sellerie, faits pour l'Amérique du Sud.

173 James, Fr., *à Londres*, A.—Porte-manteaux.

174 Jones, W.-D., *à Shrewsbury, Shrop.*, A.—Selle élégante et légère pour cheval de course. Objets de sellerie.

A. E. 174*a* Kane, G., *Dublin*, I.—Portmanteaux.

175 Langdon, W., jeune, *à Londres*, A.—Selles et harnais de luxe. Selles de dame et selles de chasse. Brides et mors.

176 Lennon, W., *à Dublin*, I.—Selles d'homme et selles de dame. Harnais pour un cheval; harnais plaqué d'argent pour deux chevaux.

P. 177 Lowe, Samuel, *à Walsall, Stafford*, A.—Selles et harnais. Quincaillerie propre à la sellerie. Lampes de voiture.

A. E. 178 Martin, W.-H., *à Londres*, A.—Fouet, cannes, etc.

P. 179 Middlemore, W., *à Birmingham, Warwick*, A.—Selles. Harnais. Fouets. Quincaillerie pour la sellerie.

180 Newton, Th., *à Walsall, Stafford*, A.—Mors, éperons et étriers d'acier. Boucles de cuivre; boucles argentées et montures de harnais. Quincaillerie à l'usage de la sellerie et de la carrosserie. Dessins de harnais et de selles.

181 Penny, John, *à Londres*, A.—Modèle de brides de cérémonie, avec armoiries, ornements et emblèmes.

182 Shipley, J.-G., *à Londres*, A.—Selles et harnais.

A. E. 183 Swaine et Adeney, *à Londres*, A.—Fouets, cravaches et cannes de tout genre.

184 Vick, R., *à Glocester*, A.—Objets de sellerie et de bourrellerie.

185 White, Th., *à Sleaford, Lincoln*, A.—Selles de promenade, de course, de chasse et de dame. Harnais et caparaçons.

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192 Borough Wheelworks Company (Tourney, S., et Cie), *à Londres*, A.—Roues et affûts de canon faits à la mécanique.

193 Davis, Marcus, *à Londres*, A.—Cercles de caoutchouc pour être adaptés sur les bords des roues. Truck tubulaire.

A. M. 194 Smith, Parfrey et Smith, *à Londres*, A.—Roues de de fer et de bois, faites à la mecanique, pour le train d'artillerie, les cabriolets, les cabs et les charrettes de ferme.

195 Taylor, W., *à Birmingham, Warwick*, A.—Essieux de voiture.

* Ball, William, *à Rothwell-Kettering, Northampton*, A.—Chariot léger. (Voir cl. 3.)

A. E. * Busby, William, *à Newton-le-Willows, Bedale, York*, A.—Charrette de ferme à un cheval. (Voir cl. 3.)

* Crosskill, W., *à Beverley, York*, A.—Charrette de ferme. (Voir cl. 3 et 6.)

P. * Skelton, Samuel, *à Sheffield, York*, A.—Instruments de transports. Bêches. (Voir cl. 3.)

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199 Cook, W., *à Londres*, A.—Voitures.

169 Hale, James, *Walsall.* Spring hooks, spring billets, curb chains, pole chains, South American bits, spurs, &c., &c. 335 P.

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171 Hawkins, John, 33 *Lisle-street, Leicester-square, London.* Bridle bits, stirrups, &c. 336 A. E.

172 Hill, Brothers, *Walsall.* Bits, stirrups, spurs, &c., for South America. 337 P.

173 James, Frederick, 226 *Oxford-street, London.* Portmanteaus. 340

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181 Penny, John, 37 *Union-street, Middlesex Hospital, London.* Bridles and harness. 348

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186 Winton, E. W., *Birmingham.* Machinery. Material for saddles and harness. P.

187 Wade, William, *Sunderland.* Ladies' saddles. Etrick fishing bags. A. E.

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199 Cook, W., *King-street, Golden-square, London.* Carriages. 394 A. M.

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200*a* Ward, J., *à Londres*, A.—Chaises de malade.
201 Holmes, H. et A., *à Derby*, A.—Landau. Voiture et harnais pour une paire de chevaux.
201*a* Buzton, C., *à Londres*, A.—Voitures d'enfants.
202 Hooper et Cie, *à Londres*, A.—Voiture légère. Dessins de voitures. Reproduction photographique d'une voiture d'apparat de S. M. la reine d'Angleterre.
203 Jolly, C.-W., *à Norwich, Norfolk*, A.—Voiture.
204 Kesterton, Edw., *à Londres*, A.—Voiture nouvelle dite *amempton*.
205 Magill, G., *à Dublin*, I.—Voitures.
A. M. 206 Peters et Fils, *à Londres*, A.—Voitures.
207 Rigby et Robinson, *à Londres*, A.—Voiture à trois formes, dite "Dieropha."
208 Starey, T. R., *à Nottingham*, A.—*Dog-cart.*
209 Rock et Fils, *à Hastings, Sussex*, A.—Voiture-Diaropha.
210 Thomson, G., *à Stirling*, E.—*Dog-cart* de chêne d'Ecosse verni.
211 Thorn, W. et F., *à Londres*, A.—Voitures.
212 Thrupp, C., et Cie, *à Londres*, A.—*Dog-cart.*
213 Heath, J., *Bath*, A.—Voiture de malade.

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218 Crampton, Th.-R., *à Londres*, A.—Locomotives.
219 De Bergue, Ch., *à Londres*, A.—Rails, coussinets, traverses et attaches formant la voie fixe du chemin de fer. Propulseur de nouveau système. Pompe. (Voir cl. 6.)
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221 Dunn, Hattersley et Cie, *à Manchester, Lancastre*, A.—Plaque tournante de fer forgé. Modèle de grue portative.
222 Eassie, W., *à Gloucester*, A.—Trucks et wagons perfectionnés. Pièces et appareils du matériel roulant des chemins de fer.
223 Eastwood, James, *à Derby*, A.—Roues de fer forgé pour locomotives et wagons.
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226 Jackson, P.-R., *à Manchester, Lancastre*, A.—Bandes; roues; roues à crans; pistons et autres pièces du matériel roulant des chemins de fer.
227 Lloyd, S., *à Dudley, Worcester*, A.—Modèle de plaque tournante.
227*a* Miles, Eyra, C. E., *Stoke Hammond*, A.—Modèle du frein hydrostatique pour la prévention des accidents sur les chemins de fer. Méthode nouvelle d'accouplement des tuyaux pour vapeur ou des fluides.
228 Newall, James, *à Redvales, Bury, Lancastre*, A.—Modèles de voitures de chemins de fer. Modèle de tender.
229 Palmer, Edw., *à Southampton, Hamp.*, A.—Modèle d'appareil de sûreté pour chemins de fer.
230 Parsons, P., *à Londres*, A.—Coussinet de joint pour relier les rails des chemins de fer, coussinet intermédiare à clef en fer, et coussinet en bois sans boulons pour l'assujettissement aux traverses.
231 Patent Railway Sleeper Company (Greaves), *à Londres*, A.—Rails, coussinets et traverses pour la voie fixe de chemin de fer, adoptés pour les chemins de fer d'Alexandrie, de Barcelone, de Parahiba, etc.

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233*a* Robertson, J., *à Londres*.—Fusil à bouche de trompette pour donner des signaux en mer, &e.

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234 Seaton, W.-Br., *à Londres*, A.—Voie fixe de chemins de fer.

234*a* England, G., et Cie, *New Cross, à Londres*, A.—Voie de chemin de fer.

235 Spencer, G., *à Londres*, A.—Ressorts de eaoutchouc pour voitures et tampons de chemins de fer.

236 Spencer, Til., *à Dudley, Worcester*, A.—Essieux pour voitures de chemins de fer.

237 Stephenson, R., et Cie, *à Newcastle-sur-Tyne, Northumberland*, A.—Locomotive et tender.

238 Stevens, J., *à Londres*, A.—Signaux sémaphores pour chemins de fer. (Voir cl. 9.)

239 Thomas, Fr. S., *à Londres*, A.—Dessins de nouvelles voitures et de locomotives pour les chemins de fer.

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248 Sadler, John H., *Leeds*, A.—Une nouvelle description de roues.

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252 Oates, J. Pinlott, *à Lichfield, Stradford*, A.—Modèle de machine pour la fabrication des briques, des tuiles, des tuyaux, etc.

A. M. 253 Waring, Ch., *à Neath-Abbey, Glamorgan*, A.—Machine mue à la vapeur ou à bras, servant à couper dans la mine des blocs de houille ou d'autres substances minérales, de façon à économiser les frais d'extraction et de travail.

254 Whitehead, John, *à Preston, Lancastre*, A.—Machine pour la fabrication des tuiles, des briques, des tuyaux de drainage et de toutes sortes d'ouvrages en argile.

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257 Mackworth, H., *à Clifton, Glocester*, A.—Modèles de machines et d'instruments à l'usage des mines.

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248 Sadler, John H., *Leeds*. A new description of wheels. 462

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272 Birch, J., *à Londres*, A.—Scie mécanique à couper les montants et les moulures de portes, fenêtres et châssis.

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279 Burgess et Key, *à Londres*, A.—Machine à moissonner. Baratte Tubes de gutta-percha.

279 Burgess and Key, 103 *Newgate-street, City, London* Reaping machine; churn; Gutta-percha tubing. 132 A. E.

* Clayton, Shuttleworth, et Cie, *à Lincoln*, A.—Machine combinée pour battre les grains, hacher les fourrages, vanner les céréales et mettre les grains en sac. Moulin à moudre les grains. (Voir cl. 4.)

* Clayton, Shuttleworth, and Company, *Lincoln.* Machine of combined power to thrash, winnow, and sack a corn crop. Grinding mill. (See cl. 4.) 138

A. M. 280 Corcoran, B., et Cie, *à Londres*, A.—Modèle de four à drèche.

280 Corcoran, B., and Co., 36 *Mark-lane, London.* Model malt kilns. 577 A. M.

* Crosskill, W., *à Beverley, York*, A. — Machine à moissonner. (Voir cl. 3 et 5.)

A. E. * Crosskill, W., *Beverley, Yorkshire.* Reaping machine (Bell's). (See cl. 3 and 5.) 140

281 Dray, W., et Cie, *à Londres*, A.—Machine à moissonner, système Hussey; presse à fromage. (Voir cl. 4.)

281 Dray, William, and Co., *Swan-lane, Upper Thames-street, London.* Reaping machine (Hussey's); cheese-press. (See cl. 4.) 141 A. E.

P. 282 Farrow, Ch., *à Londres*, A.—Machine pour mettre les vins en bouteille et pour boucher les bouteilles.

282 Farrow, Charles, 18 *Great Tower-street, London* Bottling and corking machine. 573 P.

* Garrett, Richard, et fils, *à Saxmundham, Suffolk*, A.—Machine à vapeur pour battre les céréales; machine à concasser les tourteaux pour l'alimentation du bétail. (Voir cl. 3.)

A. E. * Garrett, Richard, and Son, *Leiston Works, Saxmundham.* Thrashing machine; oil-cake breaker. (See cl. 3.) 142

* Hornsby, Richard, et fils, *à Grantham, Lincoln*, A.—Machine pour épurer le blé; machine pour battre les céréales: machine à concasser les tourteaux pour l'alimentation du bétail. (Voir cl. 3 et 4.)

* Hornsby, Richard, and Sons, *Spittlegate Iron Works, Grantham, Lincolnshire.* Machine for cleaning threshed corn; thrashing machine; oil-cake breaker. (See cl. 3 and 4.) 143 A. E.

A. M. 283 Hurwood, G., *à Ipswich, Suffolk*, A.—Moulins avec meules de métal pour moudre les céréales, le riz, le café, les légumes, etc. (Voir cl. 13.)

283 Hurwood, George, *College-street, Ipswich.* Metal mills. (See cl. 13.) 578 A. M.

Machinery for Workshops.

284 Huxhams et Brown, *à Exeter, Devon*, A.—Moulin à tan. Moulin à farine. Fourneau de cuisine. Ecoutilles de navires.

A. M. 284*a* Loysel, E., *à Londres*, A.—Machine hydrostatique pour faire filtrer le café.

284*b* Lyon, A., *à Londres*, A.—Machine pour couper le viande, le pain et les legumes.

285 Orr, W., *à Greenock, Renfrew*, E.—Modèle de machine à purger le sucre.

286 Pierce, William, *à Londres*, A.—Hachepaille du système Corne.

* Ransomes et Sims, *à Ipswich, Suffolk*, A.—Machine pour préparer le lin; moulin à broyer les fèves. Coupe-racines. (Voir cl. 3.)

A. M.

287 Reid, Robert, *à Arbroath, Forfar*, E.—Machine à vanner et trier le blé.

* Stanley, W.-P., *à Peterborough, Northampton*, A.—Appareil propre à la cuisson des ravines; appareil pour broyer les céréales. (Voir cl. 3.)

P. * Stoker freres.—Machines à l'usage des brosseries. (Voir cl. 16.)

A. M. 288 Tylor, J., et fils, *à Londres*, A.—Machine pour la fabrication du soda-water. Ouvrage de métal. (Voir cl. 13.)

291 Bryan, Corcoran, et Cie, *à Londres*.—Machine employée dans la fabrication du papier.

10e Section. *Machines des arts chimiques.*

A. M. 292 Donkin, Bryan et Cie, *à Londres*, A.—Machines pour couper les chiffons et cordes dans la fabrication du papier.

292*a* Kingsford, C., *Cardiff*, A.—Presse à levier pour le traitement par compression et solidification de la tourbe et du poussier de houille.

A. E. 293 Price, Astley-Paston, *à Margate, Kent*, A.—Appareil pour la distillation des bois.

11e Section. *Machines relatives aux arts de la Teinture et de l'Impression.*

296 Cripps, J. et W., *à Manchester, Lancastre*, A.—Machine à graver les cylindres pour l'impression des étoffes de coton.

297 Jarrett, Griffith, *à Londres*, A.—Presses à imprimer et à gaufrer. Presse à copier.

A. M. 298 Johnson, J. R., *à Londres*, A.—Machines pour fondre et finir les caractères d'imprimerie.

300 Neale, R. (per Nourse et Cie, 17 *Cornhill*), *à Londres*, A.—Machine pour imprimer en taille-douce.

301 Straker, S., *à Londres*, A.—Presse pour la lithographie avec levier laterale.

A. E. 302 Waterlow et fils, *à Londres*, A.—Petites machines à l'usage des papetiers. (Voir cl. 25 et cl. 26.)

12e Section. *Machines spéciales à certaines industries.*

A. M. * De Bergue, C., *à Londres*, A.—Appareil pour mouler. (Voir cl. 5.)

7e CLASSE.

Class 7. Machinery for Woven Fabrics.

Mécanique spéciale et matériel des Manufactures de Tissus.

1re Section. *Pièces détachées pour la Filature et le Tissage.*

308 Brown, Al., *à Barnsley*, A.—Peignes et lisses de fer et d'airain pour le tissage.

A. M. 309 Crabtree, Th., *à Halifax, York*, A.—Machine à fabriquer les cardes.

310 Foxwell, Dan., *à Manchester, Lancastre*, A.—Machine à fabriquer les cardes.

284 Huxhams and Brown, *Exeter*. Mills, kitchen-stoves, and ships' caboose. 1721

A. M.

284*a* Loysel, E., 68 *Snow Hill, London*. Patent hydrostatic percolators for coffee. 575

284*b* Lyon, A., 32 *Windmill-street, Finsbury, London*. Meat, bread, and vegetable cutting machine.

285 Orr, William, *Drumfroehar-road Greenock*. Model of a sugar shaving machine. 576

286 Pierce, William, 73 *Mark-lane, London*. Chaff cutter (Corne's). 146

* Ransomes and Sims, *Ipswich*. Flax scutching machine; bean mill; turnip-cutters (Gardner's); expanding double mould board plough. (See cl. 3.) 147

A. E.

287 Reid, Robert, *Colliston Mill, Arbroath, N.B.* Dressing fan. 148

* Stanley, W. P., *Peterborough*. Cooking apparatus for roots, &c.; corn crusher, &c.; press roller (Cambridge's.) (See cl. 3.) 155

* Stocker, Brothers, 3 *Arthur-street, New Oxford-street, London*. Beer engines. (See cl. 16.) 1747

P.

288 Tylor, Joseph, and Sons, *Warwick-lane, Newgate-street*. Soda-water machine and metal work. (See cl. 13.) 572

A. M.

291 Bryan, Corcoran, and Company, 36 *Mark Lane, London*. Paper-machine wires.

Section 10. *Machines used in the Chemical Arts.*

292 Donkin, Bryan, and Company, *Bermondsey, London*. Rag and rope-cutting machine used in making paper. 581

A. M.

292*a* Kingsford, C., *Cardiff*.—Press for the solidification and conversion into an effective combustible of turf and coal dust 582

293 Price, Astley Paston, *Margate, Kent*. Apparatus for distilling wood. 560

A. E.

Section 11. *Machines used in connection with Dyeing and Printing.*

296 Cripps, J. and W., *Victoria-buildings, Manchester*. Patent cotton-cylinder engraving machinery. 594

297 Jarrett, Griffith, 37 *Poultry, London*. Patent printing and other presses. 715

298 Johnson, John Robert, 33A, *Liquorpond-street, Gray's-inn-lane, London*. Machine for casting printing-type, machine for finishing ditto. 512

A. M.

300 Neale, R. (per Nourse and Company, 17 *Cornhill, London*). Copper-plate printing machine. 596

301 Straker, Samuel, 80, *Bishopsgate Within, London*. Patent side lever lithographic press. 595

302 Waterlow and Sons, 65 *London-wall, London*. Stamping machine. (See cl. 25 and 26.) 1035

A. E.

Section 12. *Machines used only in certain Trades.*

* De Bergue, Charles, 9 *Dowgate-hill, London*. Permanent way, new propeller, moulding apparatus, patent pump. (See cl. 5.) 445

A. M.

CLASS VII.

Special Machinery and Apparatus for the manufacture of Woven Fabrics.

Section 1. *Instruments used in Spinning and Weaving.*

308 Brown, Alexander, *Shambles street, Barnsley*. Reeds of iron and brass, used in weaving cloths. 627

309 Crabtree, Thomas, *Well-lane, Halifax*. Card-making machine. 624

A. M.

310 Foxwell, Daniel, *Roger-street, Red Bank, Manchester*. Card-making machine. 625

Machinery for Woven Fabrics.

311 Watkins, W. et T., *à Bradford, York*, A.—Bobines, dévidoirs cylindriques et autres pièces de porcelaine pour les filatures et les fabriques de tissus de soie et de laine peignée. Pièces de porcelaine pour toute espèce de mécanique. . M.

312 Smith, Joseph, *à Keighley, près de Bradford*, A.—Lames de maillons et de peignes de fer et d'airain pour le tissage.

313 Robson, Byrne, et Goodall, *à York*.—Cardes de point d'aiguilles pour le lin et l'étoupe. . M.

313*a* Hattersley, J., *à Leeds*, A.—Broches et volants.

2e Section. *Machines pour la préparation et la Filature du Coton.*

. M. 314 Booth, H., et Cie, *à Preston, Lancastre*, A.—Bancs à broches et matériel pour la filature du coton.

. E. 315 Burn, Robert, *à Edimbourg*, E.—Machine à nettoyer le coton.

. M. 316 Coombe et Cie, *à Londres*, A.—Machine à nettoyer le blé. Modèle d'une machine à bluter le blé. Brosses, ouvrages en fil de fer, etc.

317 Elce, J., et Cie, *à Manchester, Lancastre*, A.—Machines à préparer et métiers à filer le coton.

318 Horsfall, W., *à Manchester, Lancastre*, A.—Cardes de fil de fer à l'usage des filatures de coton.

319 Leigh, Ev., *à Manchester, Lancastre*, et Dobson et Barlow, *à Bolton*, A.—Machines à carder et métiers à filer le coton.

320 Lister, S. Cunliffe, *à Bradford*, A.—Machine à carder.

321 Mason, J., *à Rochdale, Lancastre*, A.—Machines pour carder, peigner et filer le coton. Machine à carder la laine.

322 Muir, —, *à Glasgow, Lanark*, E.—Métier à filer.

324 Platt freres et Cie, *à Oldham, Lancastre*, A.—Série complète de machines servant à la préparation, au cardage, à la filature et au doublage du coton.

Annexe Machinery.

3e Section. *Machines pour la préparation et la filature du Lin et du Chanvre.*

. M. 328 Combe, J., et Cie, *à Belfast, Antrim*, I.—Machines à séraneer le lin.

329 Davy, Edw., *à Fordton, près d'Exeter, Devon* A.—Machine à préparer le lin et le chanvre sans rouissage.

4e Section. *Machines pour la préparation et la filature de la Laine.*

A. M. 332 Sykes et Ogden, *à Huddersfield, York*, A.—Machine à nettoyer la laine.

5e Section. *Machines pour la préparation et la filature de la Soie.*

A. M. 334 Chadwick, J., 12A *Mosley-street*, et Dickens, Th., *à Middleton, Lancastre*, A.—Machine à filer la soie, procédé ayant pour objet d'obtenir, directement du cocon, de la soie moulinée.

334*a* Crossley, John, *à Cheshire*, A.—Machine de Jacquard perfectionné.

334*b* Murray, B. A., *à Dublin*, I.—Machine pour filer la soie du cocon.

A. M. 335 Priestley, Edm., *à Halifax, York*, A.—Peignes pour préparer les déchets de soie.

6e Section. *Machines de Corderies, de Passementerie, et machines spéciales.*

7e Section. *Tissage à basses lisses et hautes lisses.*

A. M. 339 Drieu, Jerome-Andre, *à Patricroft, près de Manchester, Lancastre*, A.—Métier à tisser la futaine et le velours de coton.

311 Watkins, W. and T., 53 *Bridge-street, Bradford, Yorkshire.* Porcelain shuttle eyes, and other weaving implements. All manner of mechanical agents in porcelain. 622 A. M.

312 Smith, Joseph, *Keighley, near Bradford.* Reeds of iron and brass and mail healds used in weaving cloths. 630

313 Robson, Byrne, and Goodall, *Brighouse, York.* Needle-point tow cards. A. M.

313*a* Hattersley, J., *Leeds.*—Spindles and flyers.

Section 2. *Machines used in the Preparation and Spinning of Cotton.*

314 Booth, H., and Company, *Edward-street, Preston.* Mule and throstle, &c., spindles. 633 A. M.

315 Burn, Robert, *Castle Mills, Edinburgh.* Cotton-seeding machine. 634 A. E.

316 Coombe and Company, 30 *Mark-lane, London.* Machine for cleaning wheat. Model of machine for bolting flour. Brushes, wirework, &c. A. M.

317 Elce, John, and Company, *Jersey-street, Manchester.* Cotton-spinning machinery. 637

318 Horsfall, William, *Great Bridgewater-street, Manchester.* Specimens of wire cards for spinning. 626

319 Leigh, Evan, *Miles Platting, Manchester.* Dobson and Barlow, *Bolton.* Cotton-spinning machinery. 640

320 Lister, S. Cunliffe, *Bradford.*—Carding machine.

321 Mason, John, *Globe Works, Rochdale.* Wool-spinning machinery. Machines for carding, combing, and spinning cotton. 670

322 Muir, —, *Clyde Works, Glasgow.* Spinning-machine. 632

324 Platt, Brothers, and Company, *Oldham.* A complete series of machines for the preparation and spinning of cotton. 643

Annexe Machinery.

Section 3. *Machines used in the Preparation and Spinning of Flax and Hemp.*

328 Combe, James, and Company, *Belfast.* Patent hackling machine for flax. 656

329 Davy, Edward, *Fordton, near Exeter, Devon.* Machinery for preparing unsteeped flax and hemp. 657 A. M.

Section 4. *Machines used in the Preparation and Spinning of Wool.*

332 Sykes and Ogden, *Quay-street, Huddersfield.* Patent wool-cleaning machines. 644 A. M.

Section 5. *Machines used in the Preparation and Spinning of Silk.*

334 Chadwick, J., 12A *Mosley-street, Manchester*, and Dickens, Thomas, *Spring Vale Works, Middleton.* Silk reeling machine for obtaining at once milled silk from the cod. 681 A. M.

334*a* Crossley, John, *Newton Moor, Cheshire.* Improved double-lift Jacquard machine.

334*b* Murray, B. A., *Dublin.*—Machine for spinning silk from the cocon.

335 Priestley, Edmund, *Halifax.* Silk combs for dressing waste silk. 682 A. M.

Section. 6. *Rope-making, Lace-making, and Special Machines.*

Section 7. *Weaving of the Low Warp and High Warp.*

339 Drieu, Jerome Andre, *Patricroft, near Manchester.* A power loom for fustian and velveteen. 635 A. M.

Machinery for Woven Fabrics.

Annexe Machinery.

340 Hart, J., *à Coventry, Warwick*, A.—Métier à tisse les rubans, mu par la vapeur. (Voir cl. 21.)

341 Todd, W. et G., *à Heywood, Manchester, Lancastre*, A.—Métiers pour tisser les toiles de coton.

342 Mather et Platt, *à Manchester, Lancastre*, A.—Métiers pour tisser les toiles.

343 Parker, Ch., et fils, *à Dundee, Forfar*, E.—Métier pour le tissage mécanique des toiles à voiles et d'autres tissus.

345 Sharp, J., *à Bradford*, A.—Métier à la Jacquard.

346 Smith, W., et freres, *à Heywood, près Manchester, Lancastre*, A.—Métier mécanique à la Jacquard pour le tissage de soieries brochées à plusieurs couleurs.

347 Whitehall, S., *à Nottingham*, A.—Métier à la Jacquard.

348 Wood, W., *à Monkhill, Pontefract, York*, A.—Métier à tisser les tapis.

349 Hodgson, Geo., *à Bradford, York*, A.—Métier pour tisser les alpacas.

340 Hart, James, *Earl-street, Coventry.* Steam ribbon loom. (See cl. 21) 685

341 Todd, W. and G., *Heywood, Manchester.* Power looms for weaving cottons.

342 Mather and Platt, *Manchester.* Canvas loom.

343 Parker, Charles, and Sons, *Chapelshade, Dundee.* Power-loom for navy canvas. 659

345 Sharp, John, *Gordon Street, Bradford.* Jacquard machine. 686

346 Smith, William, and Brothers, *Sun Iron Works, Heywood, near Manchester.* Power loom (*Jacquard's*) for the manufacture of silks with various colours interwoven. 683

347 Whitehall, S., *Nottingham.* Jacquard loom and machine. 684

348 Wood, William, *Monkhill, Pontefract, Yorkshire.* Machine for weaving Brussels and pile carpets. 709

349 Hodgson, Geo., *Bradford, Yorkshire.* Loom for alpacas.

Annexe Machinery.

8e Section. *Métiers à tisser, à mailles; Métiers à faire le filet, à broder, à tresser et à coudre.*

Section 8. *Looms for Making Hosiery.*

A. M. 354 Houldsworth, J., *à Manchester, Lancastre*, A.—Machine à broder, breveté.

354 Houldsworth, James, *Manchester.* Patent embroidering machine. 710 A. M.

9e Section. *Appareils et Machines pour le blanchiment, la teinture, l'apprêt et le pliage des tissus.*

Section 9. *Apparatus and Machinery for Bleaching, Dyeing, Dressing, and the Folding of Fabrics.*

Class 8.

Arts, Sciences and Instruction.

8e CLASSE.

Arts de précision, Industries se rattachant aux Sciences et à l'Enseignement.

CLASS VIII.

Arts relating to the exact Sciences, and to Instruction.

1re Section. *Poids et Mesures, appareils divers de Mesurage et de Calcul.*

Section 1. *Standard Weights and Measures, Documents of all kinds, relating to the different weights and measures used in each country.*

A. M. 360 Adcock, J., *à Londres*, A.—Compteur fonctionnant seul, pour mesurer les distances parcourues par les voitures. Instrument pour tracer les cartes géographiques.

360 Adcock, John, 4, *Marlborough-road, Dalston, London.* Self-acting distance measurer for vehicles, model of mapping instrument. 722 A. M.

Palais Gallery.

361 Barrow, H., *à Londres*, A.—Balances.

362 Becker, Ch., *à Londres*, A.—Balance. Gyroscope. Réfractomètre et autres instruments servant à des recherches scientifiques.

363 Cutts, Chesterman et Cie, *à Sheffield, York*, A.—Ruban servant de mesure.

364 Herschel, Sir John, *à Londres*, A.—Machine à peser la monnaie.

365 Oertling, L., *à Londres*, A.—Balances de précision pour les analyses chimiques.

361 Barrow, Henry, 26 *Oxenden-street, London.* Balances, &c. 720

362 Becker, Charles, 39 *Newman-street, London.* Balance. Gyroscope. Refractometer, &c. 721

363 Cutts, Chesterman, and Company, *Sheffield.* Measuring tape. 719

364 Herschel, Sir John, *Royal Mint, London.* Coin weighing machines. 724

365 Oertling, Ludwig, 12 *and* 13 *Store-street, London.* Balances for weighing bullion, and for chemical analysis. 726

Palais Gallery.

A. M. 366 Saunderson, Ch., *à Londres*, A.—Mesures et instruments pour tracer les courbes de chemin de fer.

366 Saunderson, Charles, 13 *Delamere-street, Paddington, London.* Scales and instruments for setting out railway curves. 727 A. M.

P. G. 367 Sheepshanks, R., *à Londres*, A.—Mesures étalons.

367 Sheepshanks, Rev. R., *Athenæum Club, London.* Standard measures. 728 P. G.

368 Wilson, J., Professeur, *à Edimbourg*, E.—Machine pour peser l'argent.

368 Wilson, J., Professor, *Edinburgh.* Coin-counting machine.

2e Section. *Objets d'Horlogerie.*

Section 2. *Clockwork.*

P. G. 371 Adams, F. B., et fils, *à Londres*, A.—Montres.

371 Adams, F. B., and Sons, 21 *St. John's-square, London.* Watches. 730

372 Cole, Th., *à Londres*, A.—Pendules.

372 Cole, Thomas, 6 *Castle-street, Holborn, London.* Clocks. 731 P. G.

Palais Gallery.

373 Davis, W., et fils, *à Londres*, A.—Montres à Duplex, se remontant par le pendant. Divers mouvements à Ancres. Balanciers, compensateurs, regulateurs, pendules de voyage, etc.

375 Frodsham, Ch., *à Londres*, A.—Montres et chronomètres.

376 Frodsham et Baker, *à Londres*, A.—Montres et chronomètres.

376*a* Funnell, E., *à Brighton*, A.—Montre très petite à cinq lignes de diamètre.

377 Gerrard, Al., *à Aberdeen*, E.—Horloge; baromètre; sphérographe.

378 Hall, G.-Fr., *à Londres*, A.—Horloge, balancier et mécanisme d'horlogerie.

379 Loseby, E.-T., *à Londres*, A.—Montres; chronomètres.

380 Nicole et Capt, *à Londres*, A.—Montres de précision, à l'usage des observations astronomiques, des ingénieurs et des médecins. Montres se remontant sans clé.

382 Poole, J., *à Londres*, A.—Chronomètres.

383 Watkins, A., *à Londres*.—Montres.

384 Webster, R., *à Londres*, A.—Montres, chronomètres.

385 Aubert et Klaftenberger, *à Londres*.—Montres.

386 Bennett, John, *Cheapside, à Londres*.—Horloge et montres.

3e Section. *Instruments d'Optique appliquée, et Appareils de toute sorte employés pour la mesure de l'espace.*

Palais Gallery.

388 Adie, —, *à Edimbourg*, E.—Instruments d'astronomie.

389 Adie, Patr., *à Londres*, A.—Instruments de mathématiques, d'optique et de météorologie.

390 Brewster, Sir David, *à Saint-Andrew, Fife*, E.—Télescope solaire de Dollond. Telescope pour la mesure des angles et des distances. Lithoscope. Kaleïdoscopes.

391 Callaghan, W., *à Londres*, A.—Instruments d'optique.

392 Cooke, Th., *à York*, A.—Instruments d'astronomie. Instruments à l'usage de la marine.

393 De la Rue, Warren, *à Londres*, A.—Modèle indiquant la manière de monter le télescope aérien de Huyghens. Instruments d'optique.

394 Dick, A., *à Glasgow, Lanark*, E.—Chaînes d'arpentage.

395 Elliot frères, *à Londres*, A.—Instruments de mathématiques, de physique, d'optique et d'arpentage.

396 Field, R., et fils, *à Birmingham, Warwick*, A.—Lentilles de microscope. Vues calotypes.

P. 397 Gray, J., *à Liverpool, Lancastre*, A.—Habitacles; boussoles.

398 Grub, —, *à Dublin*, I.—Instruments d'astronomie.

399 Haggard, W.-D., *à Brighton, Sussex*, A.—Double rapporteur.

Palais Gallery.

399*a* Herepath, Dr., *à Bristol*, A.—Tourmalines artificielles. Polariscope portatif monté avec de grandes plaques de sulphate d'iodo-quinine comme polarisateurs et analysateurs; cet appareil est accompagné d'un cristal de nitre taillé perpendiculairement à l'axe pour servir d'examen ainsi qu'à développer le système bin-axial des anneaux.

400 Horne et Thornthwaite, *à Londres*, A.—Chambres noires pour la photographie. Lentilles perfectionnées. Instruments de physique. Télescopes.

401 Jacob, Capt., *Madras*.—Modèle d'un toit pour l'observatoire.

402 King, T.-D., *à Bristol*, A.—Microscope achromatique; microscope achromatique portatif. Chambre obscure pour la photographie.

403 Ladd, W., *à Londres*, A.—Microscopes achromatiques; machine pneumatique à double levier; baromètre et siphon.

373 Davis, W., and Son, 37 *Gracechurch-street, London*. Watches. 732

375 Frodsham, Charles, 84 *Strand, London*. Watches and chronometers. 734

376 Frodsham and Baker, 31 *Gracechurch-street, London*. Watches and chronometers. 736

376*a* Funnell, E., *Brighton*. Small lever watch, $\frac{1}{8}$ of an inch thick.

377 Gerrard, Alex. (Teacher), *Gordon's Hospital, Aberdeen*. Clock, barometer, spherograph. 735

378 Hall, George Frederick, 15 *Norfolk-street, Fitzroy-square, London*. Clock pendulum and mechanical apparatus. 737

379 Loseby, E. T., 44 *Gerrard-street, Islington, London*. Chronometers and watches. 738

380 Nicole and Capt, 80 *Dean-street, Soho-square, London*. Watches for astronomers, engineers, and physicians. Watches, self-adjusting, without key. 740

382 Poole, John, 57 *Fenchurch-street, London*. Chronometers. 742

383 Watkins, A., 67 *Strand, London*. Watches. 744

384 Webster, Richard, 74 *Cornhill. London*. Chronometers and watches. 743

385 Aubert and Klaffenberger, *Regent-street, London* Watches and clocks. 745

386 Bennett, John. *Cheapside, London*. Turret clock and watches. 739

Section 3. *Optical Instruments and Apparatus of all kinds used in measuring Space.*

Palais Gallery.

388 Adie, —, *Edinburgh*. Astronomical instruments. 755

389 Adie, Patrick, 395 *Strand, London*. Mathematical, optical, and meteorological instruments. 756

390 Brewster, Sir David, *St. Leonard's College, St-Andrew's, N.B.* Solar telescope by Dollond—Lithoscope. Telescope for the precise measure of angles and distances. Kaleidescopes. 760

391 Callaghan, W., 45 *Great Russell-street, London*. Optical instruments. 762

392 Cooke, Thomas, *York*. Astronomical and nautical instruments. 761

393 De la Rue, Warren, 7 *St. Mary's-road, Canonbury-square, Islington, London*. Model of method of mounting the aerial telescopes of Huyghens. 763

394 Dick, A., *Glasgow*. Measuring chains. 763*a*

395 Elliot, Brothers, 56 *Strand, London*. Mathematical and surveying instruments. 765

396 Field, R., and Son, 113 *New-street, Birmingham*. Microscopes, lenses, calotype views. 764

397 Gray, J., 25 *Strand-street, Liverpool*. Binnacles and compasses. 784 P.

398 Grub, —, *Dublin*. Astronomical instruments. 765*a*

399 Haggard, W. D., 50 *Brunswick-road, Brighton*. Double protractor. 785

Palais Gallery.

399*a* Herepath, Dr., *Bristol*. Artificial tourmalines. Hand polariscope furnished with large optical plates of the sulphate of iodo-quinine as both the polariser and analyser; and with a crystal of nitre, cut perpendicularly to the axis, as the object for examination; developing the bin-axial system of rings.

400 Horne and Thornthwaite, 122 *and* 123 *Newgate-street, London*. Improved photographic apparatus and lenses, and philosophical instruments. 768

401 Jacob, Capt., *Madras*, astronomer. Model of observatory roof.

402 King, T. D., *St. Augustine's-parade, Bristol*. Achromatic microscopes, portable, &c. Photographic camera. 754

403 Ladd, William, 20 *Penton-place, Walworth, London*. Achromatic microscopes. Double-lever pneumatic machine. Barometer and syphon. 769

404 Lassell, W., *à Liverpool, Lancastre*, A.—Modèle de télescope équatorial.

405 Observatoire royal de Greenwich (Airy, G.-B.), *à Greenwich*, A.—Grand cercle pour observer le passage des astres au méridien astronomique; modèles et coupes.

406 Observatoire royal d'Ecosse (Smyth, Ch. Piazzi, astronome royal), *à Edimbourg*, E.—Instruments d'astronomie et de météorologie.

407 Pillischer, Moritz, *à Londres*, A.—Microscopes et instruments d'optique.

408 Pritchard, And., *à Londres*, A.—Microscopes avec porte-objet mobile.

410 Rosse, le comte de, *à Parsonstown, King.*, I.—Modèle de son télescope.

411 Solomon, J., *à Londres*, A.—Instruments d'optique et de mathématiques.

412 Smith et Beck, *à Londres*, A.—Microscopes.

412*a* Societe des Arts, *à Londres*, A.—Deux microscopes qui ont gagné des prix, à vendre bon marché: l'un pour 9 fr. 35 c., et l'autre pour 37 fr. 50 c.

413 Societe astronomique de Londres, A.—Modèles d'instruments d'astronomie.

414 Sturm, S., *à Londres*, A.—Lentilles fabriquées par procédé mécanique.

415 Topping, C.-M., *à Londres*, A.—Objets microscopiques pour les microscopes.

* Varley, C., *à Londres*, A.—Téleseope graphique avec support d'acajou. (Voir cl. 9.)

Palais gallery.

4e Section. *Instruments de Physique, de Chimie, de Météorologie, destinés à l'étude des sciences ou appliqués aux usages ordinaires.*

421 Adcock, J., *à Londres*, A.—Instrument pour indiquer la distance parcourue par une voiture. Modèle d'instrument pour tracer les cartes géographiques.

422 Dickinson, J., *à Manchester, Lancastre*, A.—Nouveau baromètre, dit baromètre angulaire. Anémomètre portatif propre à mesurer la vitesse de l'air dans les mines et les lieux habités.

423 Gerrard, A., *à Aberdeen*, E.—Pendule; baromètre; sphérographe; projection stéréographique à l'usage des marins.

424 Glaisher, J., *à Lewisham, Kent*, A.—Instruments de météorologie.

424*a* Gowland, G., *à Liverpool*, A.—Compas.

426 Observatoire de Kew, *près de Londres*, A.—Instruments de météorologie de l'Observatoire.

427 Stevenson, P., *à Edimbourg*, E.—Instruments de physique.

428 Tyndal, Dr., F.R.S., *à Londres*, A.—Instruments servant à la démonstration des phénomènes magnétiques.

430 Whewell, Professeur, *à Cambridge*, A.—Anémomètre.

Palais gallery.

5e Section. *Cartes, Modèles et documents d'Astronomie, de Géographie, de Topographie et de Statistique sauf renvoi à la classe (XXVI.).*

436 James, lieut.-col. au corps royal du génie, *à Southampton, Hamp.*, A.—Instruments servant à l'arpentage trigonométrique de la Grande-Bretagne; anémomètre employé par le *Board of Ordnance*.

437 Collins, H.-G., *à Londres*, A.—Cartes géographiques.

438 Manning, J., *à Londres*, A.—Sphères.

439 Wrottesley, Lord, *à Wolverhampton, Stafford*, A.—Plan de son observatoire avec les instruments d'astronomie en place.

440 Wyld, —, *à Londres*, A.—Globe terrestre et globe celeste. Cartes de la Crimée.

Palais gallery.

404 Lassell, W., *Bradstones, Liverpool.* Model of equatorial teleseope. 766 P. G

405 Astronomer-Royal, *Greenwich.* Model of Transit Circle (Astronomical Meridianal Instrument). 757 P.

406 Astronomer-Royal for Scotland, *Edinburgh* (by Smyth, C. Piazzi, Astronomer Royal, Edinburgh). Astronomical instruments. Philosophical instruments. 787

407 Pillischer, Moritz, 88 *New Bond Street, London.* Optical instruments. 771

408 Pritchard, Andrew, 162 *Fleet-street, London.* Microscopes, with movable slides. 770

410 Rosse, The Earl of, *Parsonstown, King's County, Ireland.* Model of his telescope. 753

411 Solomon, Joseph, 22 *Red Lion-square, London.* Telescopes, microscopes, lanterns, slides with rackwork. 774

412 Smith and Beck, 6 *Coleman Street, London.* Microscopes. 773

412*a* Society of Arts, *London.* Two cheap prize microscopes. Sold retail, one for 7*s.* 6*d.*, and the other for 30*s.*

413 Astronomical Society, *London.* Models of Astronomical Instruments. 759

414 Sturm, S., *London.* Lenses manufactured by a mechanical process.

415 Topping, C. M., 4 *New Winchester-street, London.* Five cases of microscopic objects. 775

* Varley, Cornelius, 1 *Charles-street, Clarendon-square, London.* Graphic telescopes and stands. (See cl. 9.) 776

Palais gallery.

Section 4. *Instruments employed in the Study of Physics, Chemistry, and Meteorology, or for Common Use.*

421 Adcock, John, 4 *Marlborough-road, Dalston. London.* Self-acting distance measurer for vehicles, model of mapping instrument. 722

422 Dickinson, J., *Barr-hill, Manchester.* A new barometer, called the angular barometer. Portable anemometer for measuring the circulation of air in mines and dwelling-places. 783

423 Gerrard, Alex. (Teacher), *Gordon's Hospital, Aberdeen.* Clock, barometer, spherograph, &c. 735

424 Glaisher, J., *Lewisham, Kent.* Meteorological instruments used in the Society's observations. 778

424*a* Gowland, G., *Liverpool.*—Compasses.

426 Kew Observatory, *Kew, near London.* Meteorological and magnetic instruments. 779

427 Stevenson, Peter, 9 *Lothian-street, Edinburgh.* Philosophical instruments. 788

428 Tyndal, Dr., F.R.S., *Royal Institution.* Instruments to illustrate magnetic and diamagnetic phenomena. 888

430 Whewell, Professor, *Trinity College, Cambridge.* Anemometer.

Palais gallery.

Section 5. *Maps, Models, and Documents relating to Astronomy, Geography, Topography, and Statistics.*

436 James, Lieut.-Col., Royal Engineers, *Southampton (Hampshire).* Instruments used in the Trigonometrical Survey of Great Britain; anemometer used by the Board of Ordnance. 800*a*

437 Collins, Henry George, 22 *Paternoster-row, London.* Maps. 800

438 Manning, J., 117 *Goswell-road, St. Luke's, London.* Globes, &c. 803

439 Wrottesley, Lord, *Wrottesley Hall, Wolverhampton.* Model of his Observatory with instruments *in situ*. 777

440 Wyld, —, *Charing Cross, London.*—Globes terrestrial and celestial. Maps of the Crimea.

Palais gallery.

6e Section. *Modèles, Cartes, Ouvrages, Instruments et Appareils destinés à l'enseignement des sciences, des lettres et des arts libéraux.*

Palais Gallery.

442 Archer, T.-C., *à Higher-Tranmere, Cheshire*, A.—Collection de matières premières pour l'enseignement.

443 Henslow, Professeur, *à Hadleigh, Suffolk*, A.—Préparations carpologiques. Fruits et sections de fruits et de semences, moulés et dessinés, servant à l'étude de la physiologie végétale.

444 Stevens, W., *à Londres*, A. — Plantes dessechées, servant à l'étude de la botanique.

445 Willats, R., *à Londres*, A.—Instruments de mathématiques.

446 Willis, Professeur, *Regent's Park, à Londres*, A.—Matériel pour l'enseignement des sciences mécaniques.

7e Section. *Matériel de l'Enseignement élémentaire.*

G. 447 Ministere du Commerce (Departement des Sciences et des Arts), *à Londres*, A.—Appareils modèles et dessins en usage dans les écoles de science et d'art du Royaume-Uni. (Voir cl. 1, cl. 3, et cl. 10.)

Section 6. *Models, Maps, Books, and Apparatus used in the study of the Sciences.*

442 Archer, T. C., *Higher Tranmere, Cheshire.* Raw materials for educational purposes. 814

443 Henslow, Professor, *Hadleigh.* Carpological apparatus, and preparations for the study of vegetable physiology. 1249

Palais Gallery.

444 Stevens, W., 1 *Rock-place, Tottenham-road, Kingsland, London.* Preserved natural flowers. 3119

445 Willats, Richard, 28 *Ironmonger-lane, London.* Mathematical instruments. 781

446 Willis, Professor, *Regent's Park, London.* Mechanical apparatus for instruction. 813

Section 7. *Materials for Elementary Instruction.*

447 Board of Trade (Department of Science and Art), *Marlborough House, London.* Apparatus and diagrams used in the Science and Art Schools. (See cl. 1, cl. 3, and cl. 10.) 812 P. G.

9e CLASS.

Industries concernant l'emploi économique de la Chaleur, de la Lumière et de l'Electricité.

1e Section. *Procédés ayant pour objet l'emploi des sources naturelles de Chaleur ou de Froid, de Lumière et d'Electricité.*

2e Section. *Procédés ayant pour objet la production initiale du Feu et de la Lumière.*

3e Section. *Combustibles spécialement destinés au Chauffage économique.*

4e Section. *Chauffage et Ventilation des Habitations.*

452 Arnott, Dr. (par Bailey et Cie), *à Londres*, A.—Foyer ouvert avec appareil fumivore. Appareil de ventilation pour appartement. Thermosiphon pour le chauffage des habitations et des serres. Pompe à air pour la ventilation des grands bâtiments.

453 Edwards, F., et fils, *à Londres*, A.—Poêles.

454 Feetham et Cie, *à Londres*, A.—Grilles de poêles; garde-feu.

454*a* Flavel, S., *à Leamington, Warwick*, A.—Cheminée de cuisine.

Palais.

455 Jeakes, W., *à Londres*, A.—Poêle richement décoré. Appareil fumivore.

456 Hoole, H.-E., *à Sheffield, York*, A.—Grilles de poêle, etc.

458 Edwards, Th., *à Liverpool, Lancastre*, A.—Modèles d'appareils pour l'éclairage et la ventilation des monuments publics.

459 Moon, J., *à Barnstaple, Devon*, A.—Poêles.

460 Onions, J.-C., *à Birmingham*, A.—Forge portative avec soufflet. Soufflets à main ordinaires et de luxe avec bois sculpté.

461 Pierce, W., *à Londres*, A.—Grilles de poêle.

M. 462 Prideaux, Th.-S., *à Londres*, A.—Soupape de fourneau se fermant d'elle-même, pour empêcher la fumée et économiser le combustible.

P. 463 Turner, H. et W., *à Sheffield*, A.—Grilles de poêles, poêles, etc.

G. 464 Varley, Mme C., *à Londres*, A.—Modèle d'un ventilateur pour appartement.

CLASS IX.

Manufactures relating to the economical production and employment of Heat, Light, and Electricity.

Class
Heat, Light, and Electricity.

Section 1. *Processes having for their object the Employment of Heat, Cold, Light and Electricity, derived from natural sources.*

Section 2. *Processes having for their object the production of Fire and Light.*

Section 3. *Combustibles to be used as Cheap Fuel.*

Section 4. *Warming and Ventilation of Houses.*

452 Arnott, Dr. (manufactured by Bailey and Company), *Holborn, London.* Ventilating and heating contrivances. 829

453 Edwards, F., and Son, 42 *Poland-street, London.* Stoves. 818

454 Feetham and Company, 9 *Clifford-street, London.* Stove-grates, fenders, &c. 820

454*a* Flavel, S., *Leamington.*—Kitchen range.

Palais.

455 Jeakes, William, 57 *Great Russell-street, London.* Stoves, &c. 823

456 Hoole, H. E., *Green-lane Works, Sheffield.* Stove-grates, &c. 822

458 Edwards, Th., 7 *Church-street, Liverpool.* Models of apparatus for lighting and ventilating public buildings. 831

459 Moon, James, 76 *High-street, Barnstaple, Devonshire.* Stoves. 841

460 Onions, J. C., *Bradford-street, Birmingham.* Bellows. 825

461 Pierce, William, 5 *Jermyn-street, London.* Stove-grates, &c. 826

462 Prideaux, Thomas Symes, 23 *Poulton-square, London.* Furnace door, for preventing smoke and economising fuel. 853 A. M

463 Turner, H. and W., *Bridge-street, Sheffield.* Stove-grates, &c. 828 P.

464 Varley, Mrs. C., 1 *Charles-street, Clarendon-square, London.* Model of a room with cornice arranged for ventilation. 830 P. G.

5e Section. *Production et emploi de la Chaleur et du Froid pour l'économie domestique.*

469 Benham, J.-L., et fils, *à Londres*, A.—Fourneaux de tôle pour cuisine. Grilles de poêle. Baignoires.

470 Duley, J., et fils, *à Northampton*, A.—Fourneau de cuisine.

471 Evans fils et Cie, *à Londres*, A.—Fourneaux de cuisine—brevetc.

472 Garton et Jarvis, *à Exeter, Devon*, A.—Fourneaux de cuisine, de fer forgé.

A. M. 473 Loysel, Edw., *à Londres*, A.—Appareil pour obtenir des extraits de substances végétales. Moulin à moudre le café. Appareil de cuisine pour le soldat en campagne. (Voir cl. 12 et 25.)

P. 474 Wakefield, F., *à Mansfield, Nottingham*, A.—Fourneaux de cuisine. Poêles.

6e Section. *Production et emploi de la Chaleur et du Froid dans les arts.*

478 Coffey, J.-Ame., *à Londres*, A.—Modèle de machine pour l'évaporation des liquides.

A. M. 479 Vivian et fils, *à Tai Bach, Glamorgan*, A.—Modèles de fourneaux; fours à coke.

7e Section. *Eclairage.*

482 Bright, R., *à Londres*, A.—Lampes et mèches.

483 Hill, J., *à Birmingham, Warwick*, A.—Lampes et leurs supports.

483*a* Henderson, R., *à Durham*, A.—Lampes de sûreté.

484 Messenger et fils, *à Birmingham, Warwick*, A.—Candélabre de bronze antique et doré. Appareils pour l'éclairage au gaz. Fanaux et lanternes servant aux chemins de fer et à la navigation.

485 Nibbs, J.-S., *à Bakewell, Derby*, A.—Lampes.

486 Philip, C.-J., *à Birmingham, Warwick*, A.—Lampes et leurs supports.

487 Price's Patent Candle Company, *à Londres*, A.—Huile de palme et séries de produits relatifs à la conversion des corps gras neutres en acides gras et glycérine, et au procédé d'acidification et de distillation. Huile de coco, stéarine, oléine. Acide stéarique et bougies, faits avec des debris de corps gras. Cires et suifs végétaux. Etuve à bougie pour chauffer l'eau.

488 Ross, Arch.-W., *à Sunniside, Sunderland, Durham*, A.—Lampe de sûreté de Davy à l'usage des mines. Lampe de sûreté perfectionnée.

489 Salt et Lloyd, *à Birmingham, Warwick*, A.—Lampes, etc.

8e Section. *Phares, Signaux et Télégraphes aériens.*

P. 493 Burdett, J., *à Poringland, Norfolk*, A.—Télégraphe pour le service intérieur des maisons.

* Stevens, J., *à Londres*, A.—Lampes pour signaux de nuit sur les chemins de fer. (Voir cl. 5.)

A. M. 495 Thornton, J., et fils, *à Birmingham, Warwick*, A.—Signaux de jour pour chemins de fer; lampes pour signaux de nuit. (Voir cl. 4.)

9e Section. *Production et emploi de l'Electricité.*

498 Allan, Th., *à Londres*, A.—Modèle d'une machine à moteur électrique.

499 Brooke, Ch., *à Londres*, A.—Appareil photographique pour constater les changements des appareils magnétiques et météorologiques. Appareil électrique. Instruments de chirurgie pour les sutures.

P. G.

499*a* Crampton, T.-R., *à Londres*, A.—Câble submarin.

500 Dering, G.-E., *à Welwyn, Hertford*, A.—Télégraphe électrique.

Section 5. *Production and Employment of Heat and Cold in Domestic Economy.*

469 Benham and Sons, 19 *Wigmore-street, London.* Stoves, grates, &c. 817

470 Duley, John, and Son, *Northampton.* Patent cooking stove. 839

471 Evans, Son, and Company, 33, *King William-street, London.* Kitchen ranges, &c. 819

472 Garton and Jarvis, 190 *High-street, Exeter.* Cooking stoves. 840

473 Loysel, Edward, 68, *Snow-hill, City, London.* Patent hydrostatic percolators for coffee, tea, &c. Cooking apparatus for the soldier in the field. 574

474 Wakefield, F., *Sherwood Iron Works, Mansfield.* Cooking apparatus, stoves, &c. 842

Section 6. *Production and use of Heat and Cold in the Arts.*

478 Coffey, John Ambrose, 4, *Providence-row, Finsbury.* Model of machine for evaporating liquids. 571

479 Vivian and Sons, *Tai Bach, South Wales.* Models of a furnace, cokeing-ovens. 854

Section 7. *Lighting.*

482 Bright, R., 37 *Bruton-street, London.* Lamps. 865

483 Hill, J., *Broad-street, Birmingham.* Lamps and brackets.

483*a* Henderson, R., *Seaham Colliery, Durham.*—Safety lamps.

484 Messenger and Sons, *Broad-street, Birmingham.* Railway lamps and ships' lights. 866

485 Nibbs, J. S., *Rutland-terrace, Bakewell, Derbyshire.* Lamps, coloured. 867

486 Philip, C. J., *St. George's-place, Birmingham.* Lamps and brackets. 868

487 Price's Patent Candle Company, *Belmont, Vauxhall, London.* Palm oil, and a series of products connected with the conversion of neutral greases into acid greases and glycerine—and in the process of acidification and distillation. Cocoa-nut oil, stearin and oleine. Acid tallow and candles made from the waste of certain greases. Vegetable waxes and tallows. Candle-stoves for heating water. 955

488 Ross, Archibald Wilson, *Sunniside, Sunderland.* A safety-lamp (Davy's) rendered unerringly secure. 869

489 Salt and Lloyd, *Edmund-street, Birmingham.* Lamps.

Section 8. *Lighthouses, Signals, and Aerial Telegraphs.*

493 Burdett, J., *Poringland, Norfolk.* Telegraph for the interior of houses. P.

* Stevens, James, *Southwark-bridge-road, London.* Semaphore railway signals and gas meter. (See cl. 5.) 442

495 Thornton and Sons, *Birmingham.* Railway ironmongery. Lifting jack. Railway day indicators and night signal lamps. (See cl. 4.) 444

Section 9. *Production and Employment of Electricity.*

498 Allan, Thomas, 1 *Adelphi-terrace, Adam-street, Strand.* Model of electro-motive engine. 889

499 Brooke, C., 29 *Keppel-street, London.* A photographic agent for ascertaining the changes that may occur in magnetic and meteorological apparatus. Surgical instruments for sutures. 895

499*a* Crampton, T. R., *Buckingham-street, London.* Submarine cable.

500 Dering, G. E., *Lockley's, Welwyn, Herts.* Electric telegraph apparatus. 890

501 Dundonald, le comte de, *à Londres*, A. — Fil de télégraphe électrique.

502 Electric Telegraph Company, *Lothbury, à Londres.* —Appareil électrique.

503 Gassiot, J.-P., F.R.S., *à Clapham, près de Londres*, A.— Batterie électrique de Grove, alimentée par l'acide nitrique.

504 Grove, W.-R., F.R.S., *à Londres*, A.—Batterie voltaïque à gaz donnant un courant coustant.

505 Harris, Sir Snow, F.R.S., *à Plymouth, Devon*, A.— Appareils électriques.

506 Henley, W.-Th., *à Londres*, A.—Télégraphes électriques. Aimants; appareils magnétiques.

507 Kuper, W., et Cie, *à Londres*, A.—Câble de fils métalliques pour la télégraphie sous-marine, les chemins de fer et les mines.

508 Lyons, M., *à Birmingham, Warwick*, A.—Appareil électro-magnétique, pour usage privé.

508*a* Meinig, C., *à Londres*, A.—Electro-générateur.

509 Newall, R. S., et Cie, *à Gateshead, Durham*, A.—Fil métallique pour la télégraphie sous-marine. Télégraphe électrique.

510 Sheperd, Charles, *à Londres*, A.—Horloges électriques.

511 South-eastern Railway Company, *à Londres*, A.— Appareils du télégraphe électrique employé sur le South-eastern railway, inventés par Ch. N. Walker, ingénieur des télégraphes de la Compagnie.

512 Varley, C. J., *à Londres*, A.—Instruments pour la télégraphie électrique. (Voir cl. 8.)

513 Wheatstone, Professeur, *à Londres*, A.—Appareils électriques et magnétiques.

501 Dundonald, the Earl of. Electrical apparatus. 883

502 Electric Telegraph Company, *Lothbury.* Electrical apparatus. 901

503 Gassiot, John P., F.R.S., *Clapham Common, near London.* Grove's nitric-acid battery. 896

504 Grove, W. R., F.R.S., *London Institution.* Voltaic gas battery, with incessant current. 899

505 Harris, Sir Snow, F.R.S., *Plymouth.* Electrical instruments. 897

506 Henley, William Thomas, 46 *St. John's-street Road, London.* Electric and magnetic telegraphs, magnets and apparatus, &c. 898

507 Kuper, W., and Company, 15 *Leadenhall-street, London.* Electric telegraphs, wires. 882

508 Lyons, Morris, 143 *Suffolk-street, Birmingham.* Magneto-electric apparatus, for personal use. 892

508*a* Meinig, C., *Piccadilly, London.*—Electro-generator.

509 Newall, R. S., and Company, *Gateshead.* Submarine wire electric telegraph. 900

510 Sheperd, Charles, 5 *Leadenhall-street, London.* Electric clock. 891

511 Walker, C. N., *South Eastern Railway, London.* Electric telegraphs, &c., used on the railway, inveuted by him. 903

512 Varley, C. J., 1 *Charles-st., Clarendon-sq., London.* Electric-telegraph instrument. (See cl. 8.) 881

513 Wheatstone, Professor, *The Mall, Hammersmith, London.* Electrical and magnetic apparatus. 902

10e CLASSE.

Arts chimiques, Teintures et Impressions; Industries des Papiers, des Peaux, du Caoutchouc, etc.

1re Section. *Produits chimiques.*

520 Albright, Arthur, *à Birmingham, Warwick*, A.— Phosphore commun; phosphore allotropique; chlorure de potasse.

521 Allhusen, C., et Cie, *à Gateshead, Durham*, A.—Sulphate de soude, carbonate de soude, alcali de 52 0/0 de soude, alcali de 36 0/0 de soude, bi-carbonate de soude, chlorure de chaux, *soda-ash* de 54 0/0 de soude.

522 Barnes, J.-B., *à Londres*, A.—Acide valérianique; valérianates de sesqui-oxyde de fer, de zinc, de quinine, etc.

523 Beatson, W., *à Rotherham, York*, A.—Sodium à l'état métallique.

524 Brodie, B.-C., *à Londres*, A.—Graphite préparé par un procédé chimique particulier.

525 Bullock, Lloyd, *à Londres*, A.—Produits chimiques

525*a* Davy, Macmurdo et Cie, *à Londres*, A.—Produits chimiques

525*b* De la Rue, W., *à Londres*, A.—Produits de cochenille.

526 Dufaville et Cie, *à Londres*, A.—Colle de poisson; gélatine.

527 Dunn et Cie, *à Glasgow, Lanark*, E.—Produits chimiques.

528 Frankland, Dr., *Owen's College, à Manchester, Lancastre*, A.—Composés organiques et composés organo-métalliques.

529 Glass, G. M., *à Londres*, A.— Colle de poisson; gélatine.

530 Hemingway, A. et W., *à Londres*, A.—Citrates de fer.

531 Hirst et Brooke, *à Leeds, York*, A.—Produits de la distillation du bois; acide acétique; esprit de bois rectifié; acétates et pyrolignites. Carmins d'indigo et indigo. Vert de Schweinfurt. Solution xyloïdique pour la photographie.

CLASS X.

Class 10.

Chemical Manufactures—Dyeing and Printing, Paper, Leather, Skins, India Rubber, &c.

Chemicals, Paper, Leather, &c.

Section 1. *Chemical Products.*

520 Albright, A., *Oldbury, Birmingham.* Common and allatropic phosphorus—chlorate of potash. 929

521 Allhusen, C., and Company, *South Shore, Gateshead.* Chemicals. Sulphate of soda, carbonate of soda, alcali of 52 per cent. of soda, alcali of 36 per cent. of soda, bicarbonate of soda, chlorure of lime, soda-ash of 54 per cent. of soda. 904

522 Barnes, J. B., *London.* Valerianic acid; valerianates of sesqui-oxyde of iron, of zinc, of quinine, &c.

523 Beatson, W., *Rotherham.* Metallic sodium. 930

524 Brodie, B. C., F.R.S., 13 *Albert-road, Regent's-park, London.* Modifications of graphite. 935

525 Bullock, Lloyd, *Battersea, London.* Chemicals. 907

525*a* Davy, Macmurdo, and Co., *Upper Thames-street, London.* Chemicals.

525*b* De la Rue, W., *Canonbury, London.* Products of cochineal.

526 Dufaville and Company, *Broughton House, Islington, London.* Gelatine and isinglass. 1101

527 Dunn and Company, *Glasgow.* Fine chemicals. 909

528 Frankland, Dr., *Owen's College, Manchester.* Organic radicals, and organo-metallic compounds. 931

529 Glass, G. M., *Brandon-street, Walworth, London.* Isinglass and gelatine. 1102

530 Hemingway, A. and W., *Portman-street, London.* Chemicals. 910

531 Hirst and Brooke, *Hunslet, near Leeds.* Chemicals. Produce of the distillation of wood; acetic acid; rectified wood-spirit; acetates and pyrolignites. Carmines of indigo and indigo. "Vert de Schweinfurth." Xyloidic solution for the purposes of photography. 911

532 Hopkins et Williams, *à Londres*, A.—Produits chimiques

533 Hurlet et Campsie Alum Company (King, J.), *à Glasgow, Lanark*, E.—Prussiates de potasse jaunes et rouges. Matières premières servant à leur fabrication.

534 Irvine et Bryce, *à Glasgow, Lanark*, E.—Iode et iodures.

535 Lindsay, G., *à Sunderland, Durham*, A. — Sulfate de fer.

537 Mansfield, B., *à Weybridge*, A.—Benzole obtenu par la distillation du naphthe de houille.

538 Morson et fils, *à Londres*, A.—Produits chimiques.

539 Muller, H.-W., *à Londres*, A.—Lithie, et sels de lithie.

540 Muller-Grenet, F., *à Londres*, A.—Gélatine; colle forte fine.

541 Penney, Ch., *à Glasgow, Lanark*, E.—Iode et iodures.

542 Poynter, J., *à Glasgow, Lanark*, E.—Iode et iodure de potassium; noir d'os; sulfate de zinc; phosphate de soude; saltpêtre raffiné. Sulfate d'ammoniaque, et naphthe rectifié provenant de la distillation de la houille. Magnésie calcinée.

* Price, Astley-Paston, *à Londres*, A.—Acide tartrique. Bi-tartrate de potasse et nitrate de potasse, tirés des argols. (Voir cl. 3.)

543 Price, A.-P., *à Margate, Kent*, A.—Produits chimiques provenant de la distillation du bois.

544 Smith, J. et H., *à Edimbourg*.—Produits chimiques.

545 Squire, P., *à Londres*, A.—Composés d'acide urique. Couleurs chimiques. Extraits et préparations pharmaceutiques.

546 Turnbull et Cie, *à Glasgow, Lanark*, E.—Produits de la distillation du bois; acide pyroligneux; acide acétique; goudrons et huiles minérales.

547 Watson et Palmer, *à Londres*, A. — Préparations chimiques. Hydrate de magnésie.

548 White, J. et J., *à Glasgow, Lanark*, E.—Cristaux de bichromate de potasse; minerai de chrome d'Ecosse.

549 Wilson, J., et Cie, *à Glasgow, Lanark*, E.—Alun. Sulfate de fer. Naphthe et sulfate d'ammoniaque obtenus dans les usines à gaz.

549*a* Wood, E., *à Stafford*, A.—Borax.

550 Wright, Dr. H., *à Londres*, A.—Appareils pour reconnaître la présence de l'acide cyanhydrique.

551 Young, J., *à Glasgow, Lanark*, E.—Produits minéraux; paraffine. (Voir cl. 12.)

Annexe east.

532 Hopkins and Williams, 5 *New Cavendish-street, London*. Chemicals. 912

533 Hurlet and Campsie Alum Company (King, J.), *Glasgow*. Prussiates of potassium, yellow and red. The raw material, from whence derived. 914

534 Irvine and Bryce, *Glasgow*. Iodine, &c. 915

535 Lindsay, G., 38 *West Sunnyside, Sunderland*. Sulphate of iron. 936

537 Mansfield, B., *Weybridge*. Benzole, obtained by the distillation of Coal Naphtha. 933

538 Morson and Son, 19 *Southampton-row, London*. Chemicals. 918

539 Müller, H. W., 110 *Bunhill Row, London*. Lithia and its salts. 932

540 Müller-Grenet, F., *East-street, Cambridge-heath, London*. Gelatine and glue. 1103

541 Penney, Charles, *Glasgow*. Iodine, &c. 919

542 Poynter, John, *Glasgow*. Iodide of potassium, bone black. Sulphate of zinc; phosphate of soda; refined saltpetre. Sulphate of ammonia and rectified naphtha derived from coal distillation. Calcined magnesia. 921

* Price, Astley Paston, *Government School of Mines, London*. Tartaric acid. Bi-tartrate of potass, &c. (See cl. 3.) 922

543 Price, Astley Paston, *Margate, Kent*. Products obtained by the distillation of woods. 560

544 Smith, J. and H., *Edinburgh*. Chemical products. 937

545 Squire, Peter, 277 *Oxford-street, London*. Chemicals and pharmaceutical preparations. 923

546 Turnbull and Company, *Glasgow*. Distillation from wood; pyroligneous acid; acetic acid; tars and mineral oils. 924

547 Watson and Palmer, *Wilton-place, Belgrave-square, London*. Hydrate of magnesia. 925

548 White, J. and J., *Glasgow*. Chromate of potash. 926

549 Wilson, John, and Company, *Glasgow*. Alum and coal tar products. 927

549*a* Wood, E., *Post Hill, Staffordshire Potteries*. Borax.

550 Wright, Dr. H., *London*. Apparatus for detecting the presence of cyanhydric acid. 1257

551 Young, James, *Glasgow*. Mineral products, paraffine, &c. (See cl. 12.) 928

Annexe east.

2e Section. *Corps gras, Résines, Essences, Savons, Vernis et Enduits divers.*

558 Allin, W.-S., *à Londres*, A.—Cirage. Poudre pour nettoyer les métaux.

A. E. 559 Bonus, W.-E., *à Londres*, A.—Huiles et essences pour teindre les cheveux.

560 Bauwens, F.-L., *à Londres*, A.—Chandelles de suif, de graisses, d'huile de palme. Savons fabriqués avec les résidus des manufactures de chandelles. Oléines de suif, d'huile de palme, de graisse de cuisine, de graisse de cheval, etc. Acide oléique blanchi.

A. M. 560*a* Buckley et Cie, *Westminster, à Londres*, A.—Toiles cirées pour planchers.

A. E. 561 Cleaver, F.-S., *à Londres*, A.—Savons et parfumerie.

A. M. 562 Cobbett, J., *à Greenwich, Kent*, A.—Toiles cirées pour planchers.

A. E. 563 Cooke, J., et fils, *à Londres*, A.—Cire à cacheter.

564 Cowan et fils, *à Londres*, A.—Savons.

A. M. 565 Hare, J., et Cie, *à Bristol, Gloucester*, A.—Tapis de fil pour plancher, imprimé avec des couleurs à l'huile.

A. E. 566 Henderson, W., et fils, *à Glasgow*, E.—Savons.

Section 2.—*Fatty Substances, Rosins, Scents, Soaps, Varnishes, and all kinds of Coatings.*

558 Allin, W. S., 35 *Dorset-mews East, Portman-square, London*. Blacking and plate powder. 961

559 Bonus, W. E., 7 *York-place, Brompton, London*. Hair dye and essences. 940 A

560 Bauwens, F. L., *Ranelagh-road, Pimlico, London*. Candles, made from tallow; from various greases; from palm-oil. Soap made from the refuse of candle manufacture. 939

560*a* Buckley and Company, *Westminster Bridge-road, London*. Floor-cloths. A

561 Cleaver, F. S., 18 *Red Lion-square, London*. Soaps and perfumery. 942 A

562 Cobbett, J., *Greenwich*. Floor-cloths. 962 A

563 Cooke and Sons, 84 *Cannon-street, City, London*. Sealing wax. 943 A

564 Cowan and Sons, *New Gravel-lane, Shadwell, London*. Soaps. 944 A

565 Hare, J., and Company, *Temple Gate, Bristol*. Floor cloth. 946 A

566 Henderson, W., and Sons, *Glasgow*. Soap. 947 A

567 Higham, J., *à Plymouth, Devon*, A.—Pommades.

568 Hillas, F., *à Londres*, A.—Huiles épurées.

569 Jennings, H.-C., *à Londres*, A.—Stéarine.

570 Knight et fils, *à Londres*, A.—Savons pour les usages domestiques.

571 Langdale, E.-F., et Bonus, W.-E., *à Londres*, A.—Essenees artificielles pour aromatiser les vins, les liqueurs spiritueuses, les pastilles, les sorbets. Pastilles aromatisées, reproduisant la saveur de différents fruits.

572 Mander freres, *à Wolverhampton, Stafford*, A.—Vernis gras; résines.

573 Nixon, Th., *à Rothwell, près Kettering, Northampton*, A.—Panneaux de sapin peints et vernis avec des couleurs à l'huile résistant à l'action de l'air et de la chaleur.

574 Perks, S., *à Hitchin, Hertford*, A.—Huile de lavande purifiée; eau de lavande.

575 Rimmel, E., *à Londres*, A.—Vinaigre hygiénique de toilette. Eau de senteur pour parfums. Bouqets artificiels reproduisant le parfum des fleurs naturelles. Savons de toilette. Pommades; poudres dentifrices.

576 Smith, R., *à Glasgow, Lanark*, E.—Huiles et produits extraits des résines.

577 Tennant, C., et Cie, *à Glasgow, Lanark*, E.—Soude. Poudre à blanchir. Savon.

578 Wallis, G. et T., *à Londres*, A.—Vernis résineux; laques et vernis. Huiles. Couleurs.

579 Waterston, G., *à Edimbourg*, E.—Cires à cacheter préparées avec de la colophane et des matières colorantes.

567 Higham, James, *Sussex-terrace, Plymouth.* Case of pomatum, &c. 948

568 Hillas, F., 19 *Gracechurch-street, London.* Purified oils. 949

569 Jennings, H. C., *London.* Stearine. 950

570 Knight and Sons, *Old Gravel-lane, St. George's East, London.* Soap for household work. 951

571 Langdale, E. F., 59 *Berwick-street, Soho, London.* Essences to impart aroma to wine, spirituous liquors, pastiles, &c. 952

572 Mander, Brothers, *Wolverhampton.* Varnishes and gums. 953

573 Nixon, Thomas, *Rothwell, Northamptonshire.* Specimens of oil tinting and varnishing deal, capable of resisting atmospheric influences. 2839

574 Perks, Samuel, *Hitchin, Herts.* Perfumery. 954

575 Rimmel, E., 39 *Gerrard-street, Soho, London.* Perfumery. Soaps, pommades, and tooth-powder. 956

576 Smith, Richard, *Glasgow.* Tin salts, rosin, oil, &c. 957

577 Tennant, C., and Company, *Glasgow.* Soda, bleaching powder, soap. 958

578 Wallis, G. and T., 64 *Long Acre, London.* Resins, varnishes, &c. 959

579 Waterston, George, *Hanover-street, Edinburgh.* Sealing-wax. 960

Annexe east.

3e Section. *Caoutchouc et Gutta Percha.*

582 Carpenter et Cie, *à Birmingham, Warwick*, A.—Bretelles, jarretières et ceintures de caoutchouc. P.

* District de Manchester et Salford.—Tissus enduits de caoutchouc. (Voir cl. 19, s. 2.)

583 Goodyear, Ch., *à Londres*, A.—Machine électrique de caoutchouc. E.

584 Hodges, R.-E., *à Londres*, A.—Objets de caoutchouc à l'usage des arts mécaniques.

Section 3. *India Rubber and Gutta Percha.*

582 Carpenter and Company, 43 *Temple-street, Birmingham.* Braces, garters, and belts of caoutchouc. 2024 P.

* Manchester and Salford District. Tissues sheathed in caoutchouc. (See cl. 19, sec. 2.)

583 Goodyear, Charles, 47 *Leicester-square, London.* India rubber electric machine. 896 A. E.

584 Hodges, R. E., 44 *Southampton-row, London.* Vulcanized India-rubber. 971

4e Section. *Cuirs et Peaux.*

587 Hepburn, J. et T., *à Londres*, A.—Cuirs pour semelles, pour harnais, pour empeignes, pour courroies et machiues. Tuyaux de cuir. Cuirs vernis.

588 Ince, J., *à Londres*, A.—Fourrures.

589 Bevington et Morris, *à Londres*, A.—Couvertures de euir et de peaux de mouton.

590 Bossard, J., *à Londres*, A.—Peaux de veau brutes et préparées; veaux cirés, tannés et corroyés. Tiges et empeignes de bottes.

591 Clark, C. et J., *à Street, Somerset*, A.—Peaux de mouton et d'agneau garnies de laine, pour garniture de portes, de fenêtres, pour tapis de cheminée et de voiture. Peaux de chèvre d'Angora avec le poil. Bottes et souliers fourrés. Galoches.

592 Corry, J. et J., *à Ilchester, Somerset*, A.—Peaux mégissées d'agneau d'Italie, pour gants.

P. 593 Cozens et Greatrex, *à Walsall, Stafford*, A.—Cuirs de sanglier pour sellerie; euirs pour brides et courroies.

594 Dawson, A., et Cie, *à Dalkeith*, A.—Cuirs pour bufflerie et harnais.

595 Deed, J.-S., *à Londres*, A.—Maroquins. Couvertures faites de peaux de mouton et d'agneau d'Angleterre, avec leur laine.

596 Dixon et Whiting, *à Londres*, A.—Cuir fendu. Peau de bœuf tannée.

597 Draper, R. et H., *à Kenilworth, Warwick*, A.—Cuirs pour semelles, de peau de bœuf anglais.

Section 4. *Leather and Skins.*

587 Hepburn, J. and T., 16 *Long-lane, Southwark, London.* Leather for harness and machines. Leather tubes, &c. 993

588 Ince, James, 75 *Oxford-street, London.* Furs. 1009

589 Bevington and Morris, 67 *King William-street, City, London.* Leather and sheep-skin rugs. 982

590 Bossard, John, 9 *Church-street, Russell-street, Bermondsey, London.* Calf skins, &c. 983

591 Clark, C., and J., *Street, near Glastonbury.* Sheep and lamb skins prepared with their wool unremoved, for door, window, fire-place, and carriage rugs. Angora goat-skins. Boots, shoes, and galoches lined with furs. 984

592 Corry, J. and J., *Queen Camel, Ilchester, Somersetshire.* White and coloured leather. 985

593 Cozens and Greatrex, *Walsall.* Hog-skins for saddlers, bridle and stirrup leather for saddlers. 986 P.

594 Dawson, Andrew, and Company, *Dalkeith.* Curried leather. 987

595 Deed, J. S., 8 *Little Newport-street, Leicester-square, London.* Morocco and other leather. 988

596 Dixon and Whiting, *Bermondsey.* Leather. 989

597 Draper, R. and H., *Kenilworth, Warwickshire.* Leather for soles. 990

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598 East, Th., et fils, *à Londres*, A.—Cuirs en relief.

599 Fisher, N., et fils, *à Londres*, A.—Cuirs préparés.

599*a* Hassell, S. T.—Produits commerciales de Hull, Yorkshire.

600 Humphreys, H., *à Buckingham*, A.—Peaux de mouton tannées.

601 Lister, G., *à Dursley, Gloucester*, A.—Cuir tanné, courroies de cuir.

602 Lutwyche et George, *à Londres*, A.—Cuirs et maroquins.

604 Oastler et Palmer, *à Londres*, A.—Cuirs.

606 Ord, Arth., *à Dublin*, I.—Peaux tannées.

607 Peto, J., et Bryan, J.-S., *à Westminster*, A.—Cuirs, brevetés.

A. M. 608 Preller, Ch.-A., *à Londres*, A.—Courroies et lanières de cuir pour les machines de transport.

609 Puckridge, F., *à Londres*, A.—Baudruche à l'usage des batteurs d'or.

610 Roberts, D.-W. et H., *à Londres*, A.—Maroquins de différentes couleurs. Peaux de brebis et de veau.

611 Ross, A., et Cie, *à Londres*, A.—Cuirs.

612 Simmons, G., *à East Peckham, Kent*, A.—Cuirs.

613 Stockil, W., *à Birmingham*, A.—Cuirs corroyes.

614 Walker, W., *à Buckingham*, A.—Peaux de veau tannées.

615 Wilson, Walker, et Cie, *à Leeds, York*, A.—Peaux de mouton et de veau, maroquins préparés pour la reliure.

Annexe east.

5e Section. *Papiers et Cartons.*

621 Baldwin et fils, *à Birmingham, Warwick*, A.—Papier. Bourres et cartouches.

624 Cowan, Alex., et fils, *à Edimbourg*, E.—Papiers; cartons; registres et livres de comptes.

A. E. 624*a* Clarke, W.-H., *à Kerry*, I.—Papier fait de tourbe.

625 Hollingworth, Th.-J., *à Maidstone, Kent*, A.—Papiers faits à la mécanique et à la main.

627 Lamb, J., *à Newcastle, Stafford*, A.—Papier de soie.

P. G. ✻ Ministere du Commerce (département des sciences et des arts), *à Londres*, A.—Nouvelles matières premières employées dans la fabrication du papier. (Voir cl. 1, cl. 3, et cl. 8.)

629 Newbery, J. et R., *à Londres*, A.—Papiers.

630 Pirie, Al., et fils, *à Aberdeen*, E.—Papiers. Papiers à lettres. Sacs de papier. Cônes de papier pour pains de sucre. Cartouches faite de pâtes de chiffons pour carabines Minié.

631 Portal, W.-S., *à Malshanger, Hamp.*, A.—Papier à filigrane pour *bank-notes* de la Banque d'Angleterre.

633 Saunders, T.-H., *à Londres*, A.—Papiers.

634 Slade, W., *à Hagbourne-Mills, près de Wallingford, Hamp.*, A.—Papier buvard, papier à filtre.

635 Turner, R., *à Chafford-Mills, près de Tunbridge-Wells*, A.—Papiers.

Annexe east.

6e Section. *Blanchiment, Teintures, Impressions et Apprêts.*

P. G. 640 Abate, F., et Clero de Clerville, J.-J., *à Londres*, A.—Spécimens d'impression directe d'après nature sur calicot et papier, et application de cette impression à des objets d'ameublement.

P. 641 Alexander, R., et Cie, *à Glasgow, Lanark*, E.—Tissus teints en rouge d'Andrinople.

A. E. 642 Barsham, W., et Cie, *à Londres*, A.—Emeri. Tissu de verre pour polir.

598 East, Thomas, and Son, 214, *Bermondsey-street, London.* Embossed leather. 991

599 Fisher, N., and Sons, 5 *Maze-pond, Bermondsey, London.* Prepared leather. 993

599*a* Hassell, S. T., Commercial produce of Hull, Yorkshire.

600 Humphreys, H., *Buckingham.* Crop hides tanned. 994

601 Lister, G., *Dursley, Gloucestershire.* Tanned leather, leather straps, &c. 995

602 Lutwyche and George, 5 *Skinner-street, London.* Morocco and other leathers. 996

604 Oastler and Palmer, *White's-grounds, Grange-road, Bermondsey, London.* Leather. 957

606 Ord, Arthur, 83 *Cork-street, Dublin.* Tanned hides, &c. 999

607 Peto, J., and Bryan, J. S., *Dacre-street, Westminster, London.* Patent leather. 1010

608 Preller, C. A., 4 *Last-street, Borough, London.* Machine-driving bands. 212 A. M

609 Puckridge, F., 5 *Kingsland-place, Kingsland, London.* Goldbeater's skin. 1000

610 Roberts, D. W. and H., 24 *Bride-lane, Fleet-street, London.* Leather. 1001

611 Ross, A., and Company, *Grange Mills, Grange-road, Bermondsey, London.* Leather. 1002

612 Simmons, G., *East Peckham, Kent.* Hides. 1003

613 Stockil, W., 33 *Long-lane, Southwark, London.* Leather. 1004

614 Walker, W., *Buckingham.* Dressed calf skins, &c. 1005

615 Wilson, Walker, and Company, *Leeds.* Fancy leather. 1006

Annexe east.

Section 5. *Paper and Pasteboard.*

621 Baldwin and Son, *Sherborne-street, Birmingham.* Paper, gun-wads, &c. 1017

624 Cowan, Alex., and Son, *Edinburgh.* Paper, millboards, account books. 1018

624*a* Clarke, W. H., *Tarbet, Kerry, Ireland.*—Paper made from peat. A. I

625 Hollingworth, T. J., *Maidstone.* Paper. 1020

627 Lamb, John, 11 *Marsh-terrace, Newcastle-under-Lyne.* Tissue paper. 1022

✻ Board of Trade, *Whitehall, London.* Specimens illustrating new materials used in paper-making. (See cl. 1, 3, and 8.) 1016 P. G.

629 Newbery, J. and R., 203 *Hemlock-court, Lincoln's-inn-fields, London.* Paper. 1025

630 Pirie, Alex., and Sons, *Aberdeen.* Paper for letters and packing purposes. Cartouches for the Minié rifle, made from a paste of waste paper. 1027

631 Portal, W. S., *Malshanger, Basingstoke.* Water-mark paper. 1029

633 Saunders, T. H., *Maidstone-wharf, Queenhithe, London.* Paper. 1031

634 Slade, W., *Hagbourne-mills, near Wallingford, Berks.* Blotting paper. 1032

635 Turner, R., *Chafford-mills, near Tunbridge Wells.* Paper. 1034

Annexe east.

Section 6. *Bleaching, Dyeing, Printing, &c.*

640 Abate, F., and Clero de Clerville, J. J., 21 *George-street, Hampstead-road, London.* Designs on calico and paper, directly impressed after nature. 3130 P. G

641 Alexander, R., and Company, *Glasgow.* Turkey-red goods. 2083 P.

642 Barsham, W., and Company, 34 *Threadneedle-street, London.* Emery and glass cloth. 1047

M. 643 Burch, J., *à Crag-Hall, près de Macclesfield, Chester*, A.—Dessin de machine à imprimer les tapis. Dessin de cylindre propre à la même impression. Tapis. (Voir cl. 13.)

643 Burch, J., *Crag Hall, near Macclesfield.* Carpets. Design for a machine to print carpets. 2623 A. M.

G. 644 Drevon, H., *à Londres*, A.—Soies teintes en noir et en bleu Napoléon.

644 Drevon, Henri, *Flower and Dean-street, London.* Dyed silk in skeins. 2360 P. G.

P. 645 Ewing, A., Orr, et Cie, *à Glasgow, Lanark*, E.—Tissus teints en rouge d'Andrinople.

645 Ewing, A., Orr, and Company, *Glasgow.* Turkey-red goods. 2086 P.

G. 646 Fisher, Edw., *à Huddersfield, York*, A.—Soies teintes.

646 Fisher, Edward, *Huddersfield.* Silk dyeing. 2361 P. G.

P. 647 Gill, Jos., *à Harforth, près de Leeds, York*, A.—Tissus blanchis, tissus teints.

647 Gill, Joseph, *Harforth, near Leeds.* Bleaching and dyeing. 1051 P.

E. 648 Gilmour et Roberts, *à Glasgow, Lanark*, A.—Extraits pour la teinture.

648 Gilmour and Roberts, *Glasgow*, Dye extracts, &c. 1052 A. E.

G. 649 Howe, J., et Cie, *à Coventry, Warwick*, A.—Soies teintes en écheveaux.

649 Howe, J., and Company, *Spon-street, Coventry.* Skein-dyed silks. 2362 P. G.

650 Jourdain, W.-D., *à Londres*, A.—Soies teintes.

650 Jourdain, W. D., 60 *Milton-street, London.* Silk dyeing. 2363

P. 651 Kirkwood, Al., *à Edimbourg*, E.—Cylindre gravé pour l'impression sur étoffes. Outils pour la gravure.

651 Kirkwood, Alexander, *St. Andrew-street-lane, Edinburgh.* Die-sinking, and tools for do. 1645 P.

G. 652 Le Lievre, H., *à Londres*, A.—Soies teintes.

652 Le Lievre, Henry, *Cleveland-street, Mile End, London.* Silk dyeing. 2364 P. G.

P. 653 Monteith, Henry, et Cie, *à Glasgow, Lanark*, E.—Tissus teints en rouge d'Andrinople.

653 Monteith, Henry, and Company, *Glasgow.* Turkey-red goods. 2089 P.

E. 654 Pommier et Cie, *à Alexandria, Dumbarton*, E.—Orseille; extrait d'orseille pour la teinture et pour l'impression sur étoffes.

654 Pommier and Company. *Alexandria, N.B.* Archils. Extract for dyeing stuffs. 920 A. E.

P. 654*a* Pincoffs et Cie, *à Manchester*, A.—Mousselines et calicots imprimés par MM. S. Schwabe et Cie, Dalglish, Falconer et Cie, etc.; exposés comme spécimens de la fabrication par *l'Alizarine de Commerce.*

654*a* Pincoffs and Company, *Manchester.* Printed muslins and cambrics (printed by S. Schwarbe & Co., Dalglish, Falconer, & Co., &c.), exhibited as specimens of the work predueed by their *Patent Commercial Alizarine.* P.

M. 655 Preller, Ch.-A., *à Londres*, A.—Courroies et lanières de cuir pour les machines de transport.

655 Preller, C. A., 4 *Lant-street, Borough, London.* Machine-driving bands. 212 A. M.

656 Smith, Samuel, *à Bradford, York*, A.—Spécimens de teinture sur tissus de laine, et sur tissus laine et coton.

656 Smith, Samuel, *Horton Dye-works, Bradford.* Specimens of the dyeing of Bradford goods. 2118

657 Stirling, W., et fils, *à Glasgow, Lanark*, E.—Tissus teints en rouge d'Andrinople.

657 Stirling, W., and Sons, *Glasgow.* Turkey-red goods. 2094

658 Yates et Nightingale, *à Londres*, A.—Tapis de table de tissu de laine cardée, imprimés et gaufrés.

658 Yates and Nightingale, 42 *Gutter-lane, London.* Cloth table covers, &c. 2247

659 Ripley, Edward, et Son, *Bradford, York*, A.—Spécimens de teinture sur tissus de laine, et sur tissus laine et coton.

659 Ripley, Edward, and Son, *Bradford.* Specimens of the dyeing of Bradford goods.

Palais.

7e Section. *Couleurs, Encres et Crayons.*

Section 7. *Colours, Inks, and Pencils.*

669 Blundell, Spence et Cie, *à Londres*, A.—Couleurs; vernis.

669 Blundell, Spence, and Company, 9 *Upper Thames-street, London.* Paints and varnishes. 1063

670 Brookman et Langdon, *à Londres*, A.—Crayons.

670 Brookman and Langdon, 28 *Great Russell-street, London.* Pencils. 1064

671 Cahn, D., *à Londres*, A.—Noirs obtenus par la combustion de lie de vin, d'ivoire, d'huile végétale, etc., pour les impressions typographique, lithographique et en taille-douce.

671 Cahn, D., 16 *Wilson-street, Finsbury, London.* Blacks for lithography, and copper-plate engraving, made from the combustion of wine-dregs with ivory and vegetable oil. 1065

672 Fleming, A.-B., et Cie, *à Leith*, E.—Encres d'imprimerie noires et de couleur. Spécimens de leur emploi en typographie et en gravure noire.

672 Fleming, A. B., and Company, 45 *Salamander-street, Leith, N. B.* Inks, oils, varnishes. Printing ink. 945

673 Hawthorne, J., *à Londres*, A.—Encres de diverses couleurs.

673 Hawthorne, James, 77 *Charrington-street, St. Pancras, London.* Inks. 1067

675 Morton, Arnold, *à Londres*, A.—Couleurs pour la peinture sur bois et pour les papiers peints.

675 Morton, Arnold, 156 *Strand.* Paints. 1069

676 Picciotto, D., *à Londres*, A.—Bleu d'outremer.

676 Picciotto, D., 17 *Wharf-road, City-road, London.* Ultramarine blue. 1072

677 Rowney, George, et Cie, *à Londres*, A.—Couleurs, crayons, pinceaux, toiles et autres objets à l'usage des peintres et des étudiants. Couleurs à l'eau pour la chromo-lithographie. (Voir cl. 26.)

677 Rowney, George, and Company, 51 *Rathbone-place, London.* Artists' materials. Water colours for chromo-lithography. 1073

678 Wolff et fils, *à Londres*, A.—Crayons.

678 Wolff and Son, 22 *Church-street, Spitalfields, London.* Pencils. 1074

679 Wolston, R.-W., *à Brixham, Devon*, A.—Couleurs faites avec des minerais de fer. Bois peints avec ces couleurs.

679 Wolston, R. W., *Brixham, Devonshire.* Pigments from iron ores. 1075

Annexe East.

8e Section. *Tabacs, Opiums et Narcotiques divers.*

Section 8. *Tobacco, Opium, and various Narcotics.*

685 Lambert et Butler, *à Londres*, A.—Tabac à fumer; cigares; tabac à priser.

685 Lambert and Butler, 141 *Drury-lane, London.* Tobacco, snuff, and cigars. 1086

686 Richardson frères, *à Edimbourg*, E.—Tabac à fumer; tabac à priser.

686 Richardson Brothers, *Edinburgh.* Tobaceo and snuff. 1087

E. A. E.

11e CLASSE.

Préparation et Conservation des Substances alimentaires.

1re Section. *Farines, Fécules, et Produits dérivés (sauf renvoi à la classe III).*

690 Brown et Polson, *à Paisley*, E.—Fécule de sagou; féeules de maïs.

* Buck et fils, *à Bedale, York*, A.—Farine de froment; farine d'avoine; fleur de farine. (Voir cl. 3.)

691 Daniele, Mme St-Etienne, *à Harberton Ford, Totnes, Devon*, A.—Gluten; gomme et autres produits analogues.

692 Huntley et Palmer, *à Reading, Berk*, A.—Biscuits de différentes qualités faits à la méeanique.

693 Wotherspoon, W., *à Paisley*, E.—Féeules.

2e Section. *Sucres et Matières sucrées de grande fabrication.*

3e Section. *Boissons fermentées.*

4e Section. *Conserves d'aliments, Aliments fabriqués et Condiments.*

696 Batty et Cie, *à Londres*, A.—Condiments, sauces et conserves.

697 Dean, J., et fils, *à Londres*, A.—Conserves alimentaires.

698 Dewar, T., *à Newcastle-sur-Tyne, Northumberland*, A.—Moutarde.

699 Fadeuilhe, V., *à Londres*, A.—Lait solidifié en tablettes et en poudre. Tablettes de chocolat à la erème.

700 Martin, J., *à Dublin*, I.—Conserves alimentaires.

5e Section. *Aliments préparés avec le cacao, le café, le thé, etc.*

705 Fry, J.-S., et fils, *à Bristol, Glocester*, A.—Chocolat de diverses qualités. Bonbons de chocolat. Cacaos. Feuilles, fleurs et fruits du cacaoyer (*theobrome cacao*). Spécimens faisant connaître les phases de la fabrication.

706 Lebaigne, H., *à Londres*, A.—Chocolats, cacaos.

707 Monteiro, A., *à Londres*, A.—Chocolats.

708 White, G.-B., *à Londres*, A.—Chocolats, cacaos bruts et préparés.

6e Section. *Produits de la Confiserie et de la Distillerie.*

711 Schooling et Cie, *à Londres*, A.—Confiserie.

712 Weatherley, H., *à Londres*, A.—Confiserie. Modèles des appareils employés à la fabrication des bonbons.

713 Wotherspoon, J., et Cie, *à Glasgow, Lanark*, E.—Bonbons, marmelades et autres articles de confiserie.

7e Section. *Appareils et procédés pour la préparation et la consommation des Aliments (sauf renvoi aux classes VI et IX).*

716 Kent, George, *à Londres*, T.—Machine à nettoyer les couteaux; moulin portatif; passoire de cuisine.

717 Lyon, A., *à Londres*, A.—Machine pour hacher la viande, le pain et les légumes.

718 Nye, S., et Cie, *à Londres*, A.—Machine pour hacher les denrées alimentaires.

719 Worth, Samuel Leake, *à Londres*, A.—Machine à nettoyer les couteaux.

CLASS XI.

Preparation and Preservation of Alimentary Substances.

Section 1. *Flour, Fecula, and their Extracts.*

690 Brown and Polson, *Paisley* Starch. 1099

* Buck and Son, *Bedale, York.* Flour, oatmeal, &c. (See cl. 3.)

691 Daniele, St. Etienne, Mde., *Harberton Ford, Totnes, Devon.* Gluten, gum, &c. 1100

692 Huntley and Palmer, *Reading, Berkshire.* Fancy and sweet biseuits made by machine. 1164

693 Wotherspoon, W., *Paisley.* Stareh. 1104

Section 2. *Sugar and Sweet Substances.*

Section 3. *Fermented Drinks.*

Section 4. *Preserves and Condiments.*

698 Batty and Company, 101 *Leadenhall-street, London.* Pickles and fish-sauces. 1140

697 Dean, J., and Son, *Great Tower-street, London.* Preserved provisions. 1136

698 Dewar, T., *Newcastle-upon-Tyne.* Mustard. 1141

699 Fadeuilhe, V., 19 *Newington-crescent, London.* Solidified milk. Cakes of chocolate and milk.

700 Martin, J., *Smithfield, Dublin.* Preserved provisions. 1138

Section 5. *Preparations from Cocoa, Coffee, Tea, &c.*

705 Fry, J. S., and Sons, *Bristol.* Chocolate and cocoa. Leaves, flowers, and fruits of the cocoa-nut tree. Specimens of the process of preparing chocolate. 1150

706 Lebaigne, H., 10 *Little Tichfield-street, London.* Chocolate and cocoa. 1151

707 Monteiro, A., 2 *Upper Phillimore-place, Kensington, London.* Chocolate. 1152

708 White, G. B., 147 *Shoreditch, London.* Chocolate and cocoa. 1153

Section 6. *Confectionery and Products of Distillation.*

711 Schooling and Company, 7 *Bethnal-green, London.* Confectionery. 1165

712 Weatherley, H., 54 *Theobald's-road, London.* Confectionery. Apparatus for its preparation. 1166

713 Wotherspoon, J., and Company, 27 *Turner's-court, Glasgow.* Confectionery, marmalade, &c. 1167

Section 7. *Apparatus and Processes for the Preparation and Consumption of Food.*

716 Kent, George, 329 *Strand.* Knife-cleaning machine, portable mangle, strainer. 1179

717 Lyon, Arthur, 32 *Windmill-street, Finsbury, London.* Meat, bread, and vegetable cutting machine. 575

718 Nye, Samuel, and Company, 79, *Wardour-street, Soho.* Machine for chopping alimentary substanees. 489

719 Worth, Samuel Leake, 293 *Oxford-street.* Knife-eleaning machine. 1180

Annexe East. A. e. A. m.

12e CLASSE.

Hygiène, Pharmacie, Médecine et Chirurgie.

1re Section. *Hygiène publique et Salubrité.*

724 Allen, C. B., *Westminster, à Londres*, A.—Machine pour faire couler de l'eau dans les égouts.

725 Brain, G., et Cie, *Kingswood Collieries, près de Bristol, Devon*, A.—Modèle d'appareil de sûreté contre les accidents resultant des machines employées dans les houillères. A. M.

726 Gray, J., *à Dublin*, I.—Appareil servant au nettoyage des égouts.

727 Lewis et Barthe, *à Birmingham, Warwick*, A.—Appareil pour rendre potable l'eau de mer.

728 Paterson, R., *à Edimbourg*, E.—Trappe grillée pour empêcher les exhalaisons des égouts. Trappe grillée pour faire converger toutes les eaux de la voie publique dans les égouts. Préparation propre à absorber l'humidité pour l'assainissement des murs des habitations.

P. G. 729 Stenhouse, Docteur J., *à Londres*, A.—Spécimens d'application du charbon à divers usages sanitaires.

730 Struve, W.-Pr., *à Swansea, Glamorgan*, A.—Modèle de ventilateur à l'usage des mines.

A. M. 731 Sylvester et Cie, *à Londres*, A.—Appareil pour le chauffage et la ventilation des bains et des cuisines.

* Whitworth, J., et Cie, *à Manchester, Lancastre*, A.—Machine à balayer les rues. (Voir cl. 6.)

2e Section. *Hygiène privée.*

735 Laming, Th., *à Londres*. A.—Gants de crin. P. G.

736 Lawrence et Cie, *à Londres*, A.—Gants de crin.

P. 737 Stokes, J.-C., *à Birmingham, Warwick*, A.—Water-closet.

3e Section. *Emploi hygiénique et médicinal des Eaux, des Vapeurs et des Gaz.*

4e Section. *Pharmacie.*

739 Alison, Scott, *à Londres*, A.—Peaux d'agneau chamoisées, imperméables et préparées avec des compositions pharmaceutiques.

740 Barling, J., *à Maidstone, Kent*, A.—Or plastique pour plomber les dents.

741 Bell, John, et Cie, *à Londres*, A.—Préparations pharmaceutiques.

742 Davenport, J.-Th., *à Londres*, A.—Capsicine, gingérine, strychnine; acides benzoïque, gallique, borique; préparations d'iode, de mercure, de fer, de morphine, de quinine, etc., pour la pharmacie. Annexe east.

742*a* Hogg, *à Paris*.—Huile de foie de morue.

743 Howards et Kent, *à Stratford, près de Londres*, A.—Acides citrique et tartrique. Magnésie calcinée. Sulfates de quinine et de cinchonine. Sels de potasse, de soude, de magnésie.

744 Kent, J.-H., *à Stanton*, A.—Plantes médicinales indigènes desséchées. Poudres, extraits solides et liquides, infusions concentrées, etc., tirés de ces plantes.

745 May et Baker, *à Londres*, A.—Préparation mercurielle.

P. G. 746 Oyler, S., *à Londres*. A.—Charpie.

Class XII.

Hygiene, Pharmacy, Surgery, and Medicine.

Section 1. *Hygiene and Public Health.*

724 Allen, C. B., *Cannon-row, Westminster.* Flushing apparatus.

725 Brain, George, and Company, *Kingswood Collieries, near Bristol.* Model of safety gearing for colliery engines. 482

726 Gray, J., 4 *Prince-street, Dublin.* Flushing apparatus. 295 A. M.

727 Lewis and Barthe, *Icknield Port-road, Birmingham.* Apparatus for purifying sea-water. 1193

728 Paterson, Robert, *Police-chambers, Edinburgh.* Water traps for sewers. Preparation for effecting the absorption of humidity on the inner walls of houses. 502

729 Stenhouse, Dr., *St. Bartholomew's Hospital, London.* Charcoal respirator. 1258 P. G.

730 Struve, William Price, *Northampton Place, Swansea, Glamorgan.* Model of mine ventilation. 310

731 Sylvester and Company, 96 *Great Russell-street, London.* Warming and ventilating apparatus for baths and kitchens. 308 A. M.

* Whitworth, J., and Company, *Manchester.* Street-sweeping machine. (See cl. 6.)

Section 2. *Hygiene in Private Life.*

735 Laming, Th., 7 *Cherry Garden-street, Bermondsey, London.* Horsehair gloves, &c. 1206

736 Lawrence and Company, *Islington-place, Islington, London.* Horsehair gloves, &c. 1207 P. G

737 Stokes, J. C., *Newhall-street, Birmingham.* Water-closet. 1727 P.

Section 3. *Use of Water, Vapour, and Gas, in a Hygienic and Medicinal point of view.*

Section 4. *Pharmacy.*

739 Alison, Scott, M.D., 80 Park-street, Grosvenor-square (R. Hamilton, Agent, 27 *North Audley-st., Grosvenor-sq., London*). Medical appliances. Lamb skins rendered impervious to moisture and pharmaceutically prepared. 1231

740 Barling, J., 7 *High-street, Maidstone.* Plastic gold for dental purposes. 1233

741 Bell, John, and Company, 338 *Oxford-street, London.* Chemicals. 966

742 Davenport, J. T., 33 *Great Russell-street, Bloomsbury, London.* Chemicals. 908 Annexe east.

742*a* Hogg, *Paris.* Cod-liver oil.

743 Howards and Kent, *Stratford, near London.* Pharmaceutical preduets. 913

744 Kent, J. H., *Stanton.* Chemicals. 934

745 May and Baker, *Garden Wharf, Battersea, London.* Mercurial preparation. 917

746 Oyler, S., 2 *York-street, Camden-town, London.* Lint. 1241 P. G.

5e Section. *Médecine et Chirurgie.*

752 Ash, C., et fils, *à Londres*, A.—Dents artificielles minérales.

753 Brook, C., *à Londres*, A.—Instrument de chirurgie.

754 Bourjeaurd, P., *à Londres*, A.—Appareils de chirurgie.

755 Carte, Dr., *à Dublin*, I.—Appareils de chirurgie.

756 Coxeter, J., *à Londres*, A.—Instruments de chirurgie.

758 England, E.-H., *à Londres*, A.—Appareils de chirurgie,

759 Sibson, Docteur, *à Londres*, A.—Appareils de chirurgie: instrument pour mesurer la capacité de la poitrine; *spiromètre*, instrument pour mesurer la quantité d'air absorbée par les poumons; *pleximètre*, appareil pour inspirer le chloroforme.

760 Gray et Halford, *à Londres*, A.—Yeux artificiels.

761 Hare, S., F.R.C.S., *à Londres*, A.—Pulmomètre, instrument pour reconnaître l'état des poumons et le volume d'air respiré.

762 Harnett, W., *à Londres*, A.—Instruments à l'usage des chirurgiens-dentistes.

763 Hayes, G., *à Londres*, A.—Instrument de chirurgie.

764 Jacob, Dr., *à Dublin*, I.—Appareil de chirurgie.

765 L'Estrange, *à Dublin*, I.—Appareils de chirurgie.

766 Little, R. J., Major, R.M., *à Charleton, près de Woolwich, Kent*, A.—Bras artificiels. Robinets, &c.

* Loysel, Edward.—Seringue à injection. (Voir cl. 9 et cl. 25.)

768 Martin, E. et E.-H., *à Londres*, A.—Ceintures et bandages élastiques.

769*a* Rein, C.-F., *à Londres*, A.—Instruments acoustiques.

P. G. 770 Salt, M., et fils, *à Birmingham, Warwick*, A.—Instruments de chirurgie. Trocar et canula pour paracentesis thoracis. Canula. Pessary et nouveau tourniquet militaire.

772 Smith et fils, *à Londres*, A.—Lit d'eau pour les malades inventé par le docteur Arnott.

773 Spratt, W.-H., *à Londres*, A.—Instruments de chirurgie.

773*a* Syme, Professeur, *à Edimb urg*, E.—Instruments de chirurgie.

P.G. 774 Tonkin, sir Warwick Hele, 21 *place de la Madeleine, Paris.* Echarpe portative pour les blessures aux bras et à l'epaule.

775 Walsh, J. R., et Cie, *à Londres*, A.—Appareils de chirurgie.

776 Young, J.-A., *à Glasgow*, E.—Clé pour l'extraction des dents. (Voir cl. 10.)

Palais gallery.

Section 5. *Medicine and Surgery.*

752 Ash, C., and Sons, 8 *Broad-street, Golden-square, London.* Mineral teeth. 1232

753 Brook, C., 29 *Keppel-street, London.* Surgical adparatus. 1243

754 Bourjeaurd, P., 11 *Davies-street, Berkeley-street, London.* Surgical appliances. 1234

755 Carte, Dr., *Dublin.* Surgical apparatus. 1244

756 Coxeter, James, 23 *Grafton-street, East, Fitzroy-square, London.* Surgical instruments. 1252

758 England, E. H., *Haymarket, London.* Surgical apparatus. 1245

759 Sibson, Dr., *London.* Surgical apparatus: instrument for measuring the capacity of the chest; spirometer, for measuring the quantity of air absorbed by the lungs; pleximeter, for inhaling chloroform. 1246

760 Gray and Halford, 7 *Goswell-road, London.* Artificial eyes. 1236

761 Hare, S., F.R.C.S., 9 *Langham-place, London.* Pulmometer. 1237

762 Harnett, W., 12 *Panton-square, Coventry-street, Haymarket, London.* Dentistry. 1238

763 Hayes, G., 66 *Conduit-street, Hanover-square, London.* Surgical instruments. 1239

764 Jacob, Dr., *Dublin.* Surgical apparatus. 1250

765 L'Estrange, —, *Dublin.* Surgical apparatus. 1251

766 Little, R. J., Major, R.M., 1 *Bloomfield-pl., Charlton, near Woolwich, Kent.* Artificial arms. 1247

* Loysel, Edw. Injecting syringe. (See cl. 9 and 25.)

768 Martin, E. and E. H., 81 *Wells-street, London.* Belts and bandages. 1205

769*a* Rein, C. F., 108 *Strand, London.* Acoustic Instruments. 1258*a* P. G.

770 Salt, M., and Son, *Bull-street, Birmingham.* Surgical instruments. A troca and canula for paracentesis thoracis. A canula. A collapsing pessary and a new military tourniquet. P.

772 Smith and Son, 253 *Tottenham-court-road, London.* Dr. Arnott's water-bed. 1248

773 Spratt, W. H., 2 *Brook-street, London.* Surgical instruments. 1254

773*a* Syme, Professor, *Edinburgh.* Surgical instruments.

774 Tonkin, Sir Warwick Hele, *Paris.* Slings for wounded arms or shoulders. 1255*a* P. G.

775 Walsh, J. R., and Company, *Old Street-road, London.* Surgical tubes, &c. 1252*a*

776 Young, J. A., 185 *Buchanan-street, Glasgow.* Dental forceps. (See cl. 10.) 1253

6e Section. *Anatomie humaine et comparée.*

777 Grossmith, W. R., *Fleet-street, à Londres*, A.—Membres artificielles.

P. G. 782 Collège de l'Université, *à Londres*, A.—Pièces d'anatomie pathologique moulées en cire et coloriées.

784 Hett, Al., M.D., *à Londres*, A.—Pièces anatomiques injectées pour l'étude, telles que poumons, peau, langue, œsophage, glandes, membranes, etc.

785 Towne, Jos., *à Londres*, A.—Pièces anatomiques moulées en cire.

P. G. 786 Hopital de Guy, *à Londres*, A.—Pièces d'anatomie pathologique.

Section 6. *Anatomy of Man and Comparative Anatomy.*

777 Grossmith, W. R., 175 *Fleet-street, London.* Artificial limbs. 1258

782 University College, *London.* Models of diseased structures. 1261 P. G.

784 Hett, Alexander, M.D., 8 *Eastbourne-terrace, London.* Injected microscopic objects. 767

785 Towne, J., *London,* Anatomical articles in wax. 1259

786 Guy's Hospital, *London.* Models of diseased structures. 1260 P. G.

7e Section. *Hygiène et Médecine vétérinaires.*

Section 7. *Veterinary Medicine and Care of Horses.*

13e CLASSE.
Marine et Art militaire.

1re Section. *Eléments principaux du matériel des Constructions navales et de l'art de la Navigation.*

790 Bloomer, C., *à West-Bromwich, Stafford*, A.—Ancres et anneaux de cable-chaîne.

P. 791 Bourne, J., et Cie, *à Greenock, Renfrew*, E.—Modèle du propulseur à hélice de Holmes.

* Burch, J., *à Crag-Hall, près de Macclesfield, Chester*, A.—Propulseur pour navires et bateaux de sauvetage. (Voir cl. 10.)

A. M. 792 Burney et Bellamy, *à Londres*, A.—Réservoirs de fer pour contenir l'eau en usage à bord des bâtiments de guerre et de commerce anglais. Caisses de fer en usage à bord des bateaux à vapeur pour l'huile, le suc, le coton, etc. Caisses à eau ou à huile en usage dans les chemins de fer et les maisons.

Palais Gallery. 793 Crampton, T.-R., *à Londres*, A.—Câble de marine.

794 Goodbehere, et Cie, *à Londres*, A.—Fourneaux de cuisine de navire.

795 Marrian, J.-P., *à Birmingham, Warwick*, A.—Lampes et flambeaux, platines de canon, vis, et autres objets de bronze pour les navires.

796 Rodger, W., Lieut., R.N., *à Londres*, A.—Ancres.

797 Simpson, G., *à Glasgow, Lanark*, E.—Modèle de machine pour soulever les navires.

798 Terrell, W., et fils, *à Bristol, Somerset*, A.—Cordages et cordes de chanvre et de lin.

800 Wight, R., et fils, *à Sunderland et Seaham Harbour, Durham*, A.—Ancres et cordages.

801 Wart, Van, fils, et Cie., *à Birmingham*, A.—Instruments pour les navires.

2e Section. *Appareils de Natation, de Sauvetage, d'Exploration, etc.*

Palais. 806 Heinke, C.-E., *à Londres*, A.—Appareil de plongeur.

807 Institution nationale de Sauvetage, *à Londres*, A.—Modèles de bateaux de sauvetage.

808 Plenty, Edw., *à Newbury*, A.—Modèle de bateau de sauvetage.

809 Siebe, A., *à Londres*, A.—Appareil de plongeur.

810 Smith, R., *à Londres*, A.—Ceinture de sauvetage et bouée de liége.

A. M. 811 Tylor, J., et fils.—Appareil de plongeur. (Voir cl. 6.)

P. * Gray, Thos. W., *à Londres*, A.—Fanaux et lanternes de navire. (Voir cl. 4, N° 125.)

3e Section. *Dessins et Modèles des systèmes de Constructions navales employés sur les rivières, les canaux et les lacs.*

4e Section. *Dessins et Modèles des systèmes de Constructions navales employés pour le commerce et la pêche maritime.*

P. 813 Caird et Cie, *à Greenock, Renfrew*, E.—Machines pour la marine. Modèles de navires.

P. G. 814 Comite local de Sunderland, (MM. J. Brunton, Campbell, J. Davison, G. Hedley, M. Hodgson, G. Lawson, J. Laing, Pattison, W. Pile, J. Watson, W. Wake,) *à Sunderland, Durham*, A.—17 Modèles de navires, barques de pilote et de pêcheur, bateaux de sauvetage.

Palais. 815 Fincham, J., *à Portsmouth, Hamp.*, A.—Modèles de yachts.

816 Harvey, D., *à Londres*, A.—Modèles de yachts.

816*a* Hodgson, *à Liverpool*, A.—Modèle de navire pour le commerce, brevetée.

CLASS XIII.
Naval and Military Arts.

Section 1. *Principal Elements of the Materials used in Ship-building and of the Art of Navigation.*

790 Bloomer, C., *West Bromwich, near Birmingham.* Anchors, &c. 1265

P. 791 Bourne, J., and Company, *Greenock.* Model of Holmes' patent screw-propeller. 269

* Burch, J., *Crag Hall, near Macclesfield.* Screw-propeller for ships and life-boats. (See cl. 10.)

A. M. 792 Burney & Bellamy, *Millwall, London.* Iron tanks of every description. 426

Palais Gallery. 793 Crampton, T. R., *London.* Cable. 884

794 Goodbehere and Company, *Wellclose-square, London.* Ship fire-hearths. 821

795 Marrian, J. P., *Stanley-street, Birmingham.* Naval brass foundry. 1664

796 Rodger, Lieut. W., R.N., *Shawfield-street, King's-road, Chelsea, London.* Anchors. 1268

797 Simpson, George, 52 *Renfield-Street, Glasgow.* Model of a ship elevator. 1264

798 Terrell, W., and Sons, 6 *Welsh Back, Bristol.* Rope twine, &c. 1267

800 Wight, R., and Son, *Sunderland and Seaham Harbour.* Anchors and ships' knees. 1270

801 Wart, Van, Sons, and Co., *Summer-row, Birmingham.* Nautical instruments.

Section 2. *Swimming Apparatus, Life-boats and Diving-bells, &c.*

Palais. 806 Heinke, C. E., 103, *Great Portland-street.* Diving apparatus. 1417

807 Royal National Life Boat Institution, 14 *John-street, Adelphi, London.* Models of life-boats. 1279

808 Plenty, Edward, *Newbury.* Model of a life-boat. 1280

809 Siebe, A., *Denmark-street, Soho.* Diving apparatus. 1418

810 Smith, R., 23 *Fish-street-hill, London.* Cork life-belt and buoy. 1194

A. M. 811 Tylor, J., and Sons. Diving apparatus. (See cl. 6.) 572

P. * Gray, Thos. W., *London.* Ships' lights, scuttles, &c. (See cl. 4, No. 125.).

Section 3. *Drawings and Models of Boats, &c., used on Rivers.*

Section 4. *Drawings and Models of Ships, &c., used in Commerce and Deep-sea Fishing.*

P. 813 Caird and Company, *Greenock.* Machinery for shipping; models of ships. 1303

P. G. 814 Sunderland Local Committee, (per Messrs. Brunton, John — Campbell — Davison, John — Hedley, George — Hodgson, Moses — Lawson, George—Laing, James—Pattison—Pile, William—Watson, John — Wake, William,) *Sunderland.* Models of the following ships, viz. Kangaroo—Royal Family — Alexis — Emperor — Napoleon—Pilot and Fishing Coble—New Life Boat—Anne Dixon — Flash — Vimeira — Barque — Crest of the Wave—Aurora Borealis—Anglo Saxon — Frigate —Life Boat. 1300

Palais. 815 Fincham, John, *Highland House, Landport, Portsmouth.* Models of yachts. 1296

816 Harvey, D., 3 *Cumming-place, Pentonville-hill, London.* Models of yachts. 1299

816*a* Hodgson, *Liverpool.* Patent cargo vessel.

817 Mare, C.-J., et Cie, *à Londres*, A.—Modèles de navires de fer et bois.

817*a* Mitchell, J. B.—Modèle d'un navire de grande vitesse, "Australian clipper."

817*b* Napier, R., et fils, *Glasgow*, E.—Dessins des bateaux à vapeur, "America," "Niagara," "Europa" et "Canada." Modèles du frégate de fer et à vapeur "Simoon" (1850 ton.), du bateau à vapeur de fer "Fiery Cross" (1130 ton.), et du bateau à vapeur "Persia" (qu'on construit à present) de 3600 ton., machine de mille chevaux.

Palais.

818 Russell, J. Scott, *à Londres*, A.—Modèles de navires.

819 Samuda freres, *à Londres*, A.—Modèles de bateaux à vapeur.

820 Searle, G., et fils, *à Londres*, A.—Modèle de la barque de cérémonie du lord-maire de Londres; modèle de bateau de plaisance et d'embarcation pour régates.

821 Thompson, H., *à Liverpool, Lancastre*, A.—Modèles et dessins de navires. Navire de commerce breveté de Hodgson.

822 Yarborough, le comte de, *à Londres*, A.—Modèles de navires.

5e Section. *Dessins et Modèles des systèmes de Constructions employés dans la marine militaire.*

6e Section. *Génie militaire.*

7e Section. *Matériel et Equipages de guerre.*

829 Blair, J., *à Irvine, Ayr*, E.—Matériel de campement; tentes, lits de camp.

830 Edgington, B., *à Londres*, A.—Tentes carrées et modèles de tentes pour le service de l'armée. Poulies, bois façonnés, etc.

Palais.

831 Esnouf et Manger, *à Londres*, A.—Tentes.

832 Fowke, Fr., Capt., R.-E., *à Londres*, A.—Pontons; pont levis; bateau de sauvetage.

833 Paxton, sir Joseph, *à Londres*, A.—Tentes pour le service de l'armée.

8e Section. *Equipement des Troupes.*

9e Section. *Armes et Projectiles.*

834 Dundas, G., *Carlton Club, à Londres*, A.—Cannon.

* Aldred.—Arcs, flèches, équipements d'archers. (Voir cl. 3, n. 57.)

P. 835 Greener, W., *à Birmingham, Warwick*, A.—Carabines se chargeant par la culasse. Pistolets. Fusée de sauvetage pour les navires naufragés. (Voir cl. 2.)

A. E. 835*a* Hodges, R.-E., *à Londres*, A.—Fusée pour pêcheries.

836 Harvey, W.-J., *à Exeter* A.—Pistolet-revolver.

837 Heighington et Lawrence, *à Birmingham, Warwick*, A.—Sabres, épées et baïonnettes.

838 Hemming, S., *à Birmingham, Warwick*, A.—Cartouchières et gibernes.

839 Trulock et Harris, *à Dublin*, I.—Fusils.

* Lee, J.—Modèles de projectiles. (Voir cl. 16, n. 1025.)

840 Norton, capitaine (par Nourse et Cie), *à Londres*. —Fusils avec diverses modifications.

Palais.

841 Reeves, Cie, *à Birmingham, Warwick*, A.—Sabres et baïonnettes.

842 Richards, Westley, *à Birmingham, Warwick*, A.—Fusils; pistolets.

843 Rigby, W. et J., *à Dublin*, I.—Fusils; carabines.

844 Baker, Th.-K., *à Londres*, A.—Fusils inexplosibles. Fusils doubles. Carabines. Pistolets. Equipements de chasse.

845 Bartram, Harwood et Cie, *à Sheffield, York*, A.—Poires à poudre.

817 Mare, C. J., *Blackwall*. Models of ships. 1297

817*a* Mitchell, J. B. Model of an Australian clipper ship.

817*b* Napier, R. and Sons, *Glasgow*. Drawings of the Royal Mail Steamers "America," "Niagara," "Europa" and "Canada." Also Models of the screw steam-frigate "Simoon" (1850 tons), the screw steamer "Fiery Cross" (1130 tons), and the North American Royal Mail Steam Packet Company's steamer "Persia" (now being built), of 3600 tons, and 1000 horse power.

818 Russell, J. Scott, 37 *Great George-street, Westminster, London*. Models of ships. 1294 Palais.

819 Samuda, Brothers, *Poplar, London*. Models of steam-vessels. 1301

820 Searle and Sons, *Stangate, Lambeth, London*. Models of boats. Model of the Lord Mayor's barge. 1298

821 Thompson, H., *Liverpool*. Models and drawings of ships. Hodgson's patent cargo vessel. 1295

822 Yarborough, the Earl of, *Arlington-street, London*. Models of ships. 1302

Section 5. *Drawings of Models of Vessels of War.*

Section 6. *Military Engineering.*

Section 7. *Materials of War and Military Equipage.*

829 Blair, J., *Irvine, Ayreshire, N.B.* Camp equipage. 1335

830 Edgington, B., 2 *Duke-street, Southwark, London*. Square tent and models. 1336 Palais.

831 Esnouf and Manger, 141 *Minories*. Tents. 1338

832 Fowke, Francis, Capt., R.E., 84 *Pall Mall, London*. Pontoons, drawbridge, and life-boat. 1337

833 Paxton, Sir Joseph, *London*.—New tent for the army.

Section 8. *Equipment of Troops.*

Section 9. *Arms and Projectiles.*

834 Dundas, G., *Carlton Club, London*.—A cannon.

* Aldred. Bows, arrows, and articles for archery. (See cl. 2, No. 57.) 99

835 Greener, W., *Aston New Town, Birmingham*. Guns, pistols, &c. Carbines loaded at the breech. Safety rockets for shipwrecked vessels. (See cl. 2.) 1354 P.

835*a* Hodges, R. E., *London*.—Projectile for the fisheries. A. E.

836 Harvey, W. J., *Exeter*. Revolving pistol. 1376

837 Heighington and Lawrence, *Liverpool-street, Birmingham*. Swords, bayonets, &c. 1365

838 Hemming, S., *New Summer-street, Birmingham*. Shot belts. 1366

839 Trulock and Harris, *Dublin*. Guns. 1377

* Lee, J. Models of projectiles. (See cl. 10, No. 1025.)

840 Norton, Capt. (per Nourse and Company), *London*. Various inventions connected with guns. 1375

841 Reeves, Charles, *Charlotte-street, Birmingham*. Swords and bayonets. 1369 Palais.

842 Richards, Westley, *High-street, Birmingham*. Guns, pistols, &c. 1370

843 Rigby, W. and J., 24 *Suffolk-street, Dublin*. Guns and rifles. 1371

844 Baker, T. K., 88 *Fleet-street, London*. Guns. 1359

845 Bartram, Harwood, and Company, *North-street, Sheffield*. Powder-flasks. 1358

Pallais.

847 Brooks, E., and fils, *à Birmingham, Warwick*, A.—Fusils et pistolets.
848 Deane, Adams et Deane, *à Londres*, A.—Carabines, *rifles* et fusils de chasse. Pistolets et *revolvers*.
849 Gibbs, G., *à Bristol, Gloucester*, A.—Fusils.
850 Gilby, J., *à Beverley, York*, A.—Carabines se chargeant par la culasse.
851 Lang, *à Londres*, A.—Fusils.
852 Leetch, J., *à Londres*, A.—Carabines et pistolets.
853 Reilly, E.-M., *à Londres*, A.—Fusils et carabines.
854 Schlesinger, J., *à Londres*, A.—Armes à feu, etc.

847 Brooks, E., and Son, *Whittal-street, Birmingham* Guns, pistols, &c. 1361
848 Deane, Adams, and Deane, 30 *King William-street, London*. Guns and pistols. 1367
849 Gibbs, G., *Clare-street, Bristol*. Guns. 1362
850 Gilby, John, *Newbegin, Beverley*. Rifles. 1363
851 Lang, J., *Cockspur-street, London*. Guns, &c. 1374
852 Leetch, J., 24 *Margaret-street, Cavendish-square, London*. Rifles, pistols, &c. 1368
853 Reilly, E. M., 502 *New Oxford-street, London*. Guns, rifles, &c. 1372
854 Schlesinger, J., *Albion-place, London-wall, London*. Fire-arms, &c. 1373

Pallais.

10e Section. *Pyrotechnie (sans dérogation aux prescriptions des Articles 13 et 14 du Règlement général).*

P.
856 Armstrong, C., et Cie, *à Birmingham, Warwick*, A.—Capsules à percussion.
858 Walker, S, et Cie, *à Birmingham, Warwick*, A.—Capsules à percussion.

Section 10. *Pyrotechnics.*

856 Armstrong, C., and Company, *Mott-street, Birmingham*. Percussion caps. 1382
858 Walker, S., and Company, 12 *Legge-street, Birmingham*. Percussion caps. 1384
P.

14e CLASSE.

Constructions civiles.

CLASS XIV.

Civil Engineering.

Class 14. Civil Engineering.

1e Section.—*Matériaux de Construction.*

863 Cheeswring Granite Company, *à Londres*, A.—Pierres.
P. 864 Les Commissaires royaux pour l'Exposition universelle de 1851, *à Londres*.—Pierres à bâtir de Cornouailles. (Voir cl. 22.)
865 Cottrill, G., *à Exeter, Devon*, A.—Ciment de nouvelle espèce.
A. E. 866 Giorgi, G., *à Londres*, A.—Imitation de mosaïque.
867 Greaves, J.-W., *à Port-Madoc, Carnarvon*, A.—Ardoises.
P. 868 Henson, R., *à Londres*, A.—Ornements de marbre. Minéraux.
A. E. 869 Holland, Samuel, *à Port-Madoc, Carnarvon*, A.—Ardoises.
P. et A. M. 870 Saunders et Mitchell, *à Londres*, A.—Pilier de fer et de fonte de fer à hélice pour phares, quais, ponts et autres constructions. (Voir cl. 5.)
P. 871 Scott, H.-Y.-D., capitaine, R.E., *à Woolwich, Kent*, A.—Ciments.
872 Taylor, J., jeune, *à Londres*, A.—Modèle d'un mur de briques, avec façade de terre cuite.
873 Workman, J., *Poplar, à Londres*, A.—Ciments.
874 Ramsay, G. H., *Newcastle-sur-Tyne*, A.—Briques à l'épreuve du feu. Retortes.

Section 1. *Building Materials.*

863 Cheeswring Granite Company, *Broad-street, London*. Specimen of stone.
864 Royal Commissioners for the Exhibition of 1851, *London*. Building stones of Cornwall. (See cl. 22.) 1397
P.
865 Cottrill, G., *Exeter, Devonshire*. New kind of cement. 66
866 Giorgi, G., *London*.—Imitation of mosaic.
867 Greaves, J. W., *Port Madoc, Carnarvonshire*. Roofing slates. 72
A. E.
868 Henson, R., 113 *Strand, London*. Marble ornaments and minerals. 68
P.
869 Holland, Samuel, *Port Madoc, Carnarvonshire*. Roofing slates. 73
A. E.
870 Saunders and Mitchell, 12 *North-street, Westminster, London*. Engineering models, &c. (See cl. 5.) 1481
P. and A. M.
871 Scott, H. Y. D., Captain, R. E., *Woolwich, Kent*. Cements. 1398
872 Taylor, J., jun., *Spring-grove, Hounslow*. Model of a brick-wall with terra-cotta facings. 1396
P.
873 Workman, J., *Poplar, London*. Cements.
874 Ramsay, G. H., *Newcastle-upon-Tyne*.—Fire Bricks — Retorts.

2e Section. *Arts divers se rattachant aux Constructions.*

875 Gribbon, E.-P., *à Dublin*, I.—Modèle de croisée. Châssis et charnières de croisée.
P. 876 Singer et Green, *à Londres*, A.—Dallage de mosaïque.
879 Leather, J. W., *à Leeds, York*, A.—Le "Calder Aqueduct," et "Crown Point Bridge," Leeds.

Section 2. *Divers Branches of Work connected with Building.*

875 Gribbon, E. P., *Lower Gardiner-street, Dublin*. Window fixings. 1716
876 Singer and Green, *Vauxhall Pottery, London*. Mosaic pavement. 2769
879 Leather, J. W., *Leeds*. Designer and modeller of the Calder Aqueduct and Crown Point Bridge, Leeds. 1449
P.

3e Section. *Fondations.*

Section 3. *Foundations.*

4e Section. *Travaux relatifs à la Navigation maritime.*

Section 4. *Works in connection with Marine Navigation.*

P. 880 Murray, J., *à Londres*, A.—Modèle en relief des docks et du port de Sunderland.

880 Murray, John, C. E., 11 *Great Queen-street, Westminster, London*. Model of Sunderland docks and harbour. 1426
P.

Palais.

881 Redman, J.-B., *à Londres*, A.—Modèle de la jetée de la terrasse royale de Milton, près Gravesend.

882 Rendel, J.-M., *à Londres*, A.—Modèles des docks de Great Grimsby.

884 Trinity House, la Corporation de, *à Londres*, A.—Modèles de phares.

885 Walker, J., *à Londres*, A.—Modèle du Phare de Bishop-Rock. Modèle du pont de Glasgow.

881 Redman, J. B., 2 *New Palace-yard, London.* Model of the Royal Terrace Pier, Gravesend. 1423

882 Rendel, J. M., 8 *Great George-street, Westminster, London.* Model of Great Grimsby Docks. 1424

884 Trinity House, Corporation of the, *London.* Models of lighthouses. 1422 *a*

885 Walker, James, 23 *Great George-street, Westminster, London.* Models of the Bishop's Rock lighthouse and a bridge over the Clyde, at Glasgow. 1453

Palais.

5e Section. *Travaux relatifs à la Navigation intérieure.*

Section 5. *Works in connection with Inland Navigation.*

7e Section. *Routes et Chemins de fer.*

Section 7. *Roads and Railways.*

P.

889 Brunlees, J., *à Manchester, Lancastre*, A.—Modèle de viaduc de chemin de fer.

890 Fowler, J., *a Londres*, A.—Modèle du débarcadère de New-Holland. Modèle de dock et de station de chemin de fer. Modèle du pont de biais de Gainsborough.

889 Brunlees, J., *Essex-street, Manchester.* Model of a railway viaduct. 1448

890 Fowler, John, 2 *Queen-square-place, Westminster, London.* Architectural Models. 1422

P.

8e Section. *Ponts.*

Section 8. *Bridges.*

Palais.

894 Brunel, I.-K., C.E., *à Londres*, A.—Modèle du pont de Salt-Ash. Modèle du pont de Chepstow.

895 Moorsom, W.-S., *à Londres*, A.—Modèle d'un viaduc sur la rivière Nore, en Irlande. (Voir cl. 4.)

896 Rennie, G.-B., *à Londres*, A.—Modèles de ponts.

897 Rose, J.-J., *à Leith, Mid-Lothian*, E.—Modèle de viaduc d'une grande portée fait en charpente.

894 Brunel, I. K., C.E., 18 *Duke-street, Westminster, London.* Models of Saltash Bridge and Chepstow Bridge. 1450

895 Moorsom, W. S., 17 *Great George-street, Westminster.* Models of a viaduct across the river Nore, in Ireland, and of a copper mine. (See cl. 4.) 1451

896 Rennie, G. B., *Holland Street, Blackfriars, London.* Models of bridges. 1454

897 Rose, John J., *Upper Wet Docks, Leith.* Model of a bridge. 1452

Palais.

9e Section. *Distributions d'Eau et de Gaz.*

Section 9. *Distribution of Water and Gas.*

10e Section. *Constructions spéciales.*

Section 10. *Special Buildings.*

904*a* Bowley, R., *à Londres*, A.—Modèle d'un orchestre pour 700 artistes. Société harmonique pour la musique ecclésiastique.

P. 905 Bunning, J.-B., *à Londres*, A.—Modèle du nouveau marché aux bestiaux de Londres. Modèle de la prison d'Holloway.

908 Sewell, Ed., *à Fulneck, près de Leeds, York*, A.—Modèles.

Outside. 909 White, T., *à Sandport, Portsmouth, Hamp.*, A.—Modèle de caserne portative.

904*a* Bowley, Robert, *Exeter Hall, London.* Model of an orchestra of 700 performers. The Sacred Harmonic Society.

P. 905 Bunning, J. B., *Guildhall, London.* Model of the new Metropolitan Cattle Market; model of the new Holloway prison. 1485

908 Sewell, Ed., *Fulneck, near Leeds.* Models. 1480

Outsi 909 White, T., *Sandport, Portsmouth.* Model of portable barracks.

Class 15. Steel.

15e CLASSE.

Industrie des Aciers bruts et ouvrés.

CLASS XV.

Steel and its Products.

1re Section. *Fabrication des aciers marchands.*

Section 1. *Manufacture of Steel for the Market.*

P. 915 Cocker freres, *à Sheffield, York*, A.—Aciers fondus, bruts, étirés ou laminés. Fils d'acier fondu; filières pour la fabrication. Aiguilles. Limes. Scies. Ressorts à boudin. Outils de menuisier, de charpentier, de mécanicien. Peignes pour le lin et la laine.

915 Cocker, Brothers, *Nursery-street, Sheffield.* Edge tools. 1580 P.

916 Fox, S., et Cie, *à Sheffield, York,* A.—Fils d'acier.

917 Hoole, Staniforth et Cie, *à Sheffield, York,* A.—Aciers fondus, étirés ou laminés. Fils d'acier fondu. Scies d'acier fondu. Marteaux d'acier fondu pour la mécanique.

Palais. 918 Ibbotson freres et Cie, *à Sheffield, York.* A.—Aciers; fils d'acier. Faux. Outils de mécanicien.

919 Jowitt, Th., *à Sheffield, York,* A.—Fils d'acier de toute nature.

920 Moss, J., et Gamble freres, *à Sheffield, York,* A.—Aciers à l'usage des ingénieurs et des mécaniciens; fils d'acier fondu. Outils de tout genre.

921 Naylor, Vickers et Cie, *à Sheffield, York,* A.—Acier.

922 Webster, J., et fils, *Penns, à Birmingham,* A.—Acier; fils d'acier.

916 Fox, S., and Company, *Sheffield.* Steel wire. 1491

917 Hoole, Staniforth, and Company, *Arundel-street, Sheffield.* Edge tools. 1586

Palais. 918 Ibbotson, Brothers, and Company, *Cross Smithfield, Sheffield.* Edge tools. 1587

919 Jowitt, Thomas, *Saville-street, Sheffield.* Edge tools. 1589

920 Moss and Gamble, Brothers, *Russell-street, Sheffield.* Edge tools. 1595

921 Naylor, Vickers, and Company, *Mill Sands, Sheffield.* Steel. 1492

922 Webster, J., and Son, *Penns, Birmingham.* Steel and steel wire.

2e Section. *Fabrication d'aciers spéciaux.*

P. 925 Cocker et fils, *à Hakersage, Derby,* A.—Acier fondu pour la fabrication des outils. Acier fondu pour ressorts de montres et d'horloges. Roues et pignons de fil d'acier fondu. Aiguilles; agrafes. Ressorts en spirale à différents degrés de fabrication.

Section 2. *Manufacture of special kinds of Steel.*

925 Cocker and Sons, *Hakersage, Derbyshire.* Needles. Watch and clock springs, clasps, &c. 1621 P.

3e Section. *Ressorts.*

Section 3. *Springs.*

4e Section. *Objets de Coutellerie.*

Section 4. *Cutlery.*

928 Bagshaw, R., *à Sheffield, York,* A.—Coutellerie.

929 Beardshaw, G., *à Sheffield, York,* A.—Coutellerie: couteaux à découper; couteaux de table, de dessert; couteaux de boucher et de cuisine; couteaux de palette.

932 Briggs, S., *à Sheffield, York,* A.—Coutellerie.

933 Bell, J., et fils, *à Sheffield, York,* A.—Nécessaires de toilette.

935 Davy, Abr., *à Sheffield, York,* A.—Coutellerie.

939 Green, Alf., *à Sheffield, York,* A.—Coutellerie. Instruments tranchants.

940 Hawcroft et fils, *à Sheffield, York,* A.—Rasoirs de tout genre.

941 Kingsbury, J., *à Londres,* A.—Rasoirs.

942 MacDaniel et Cie, *à Londres.*—Coutellerie.

Palais. 943 Mappin, J., et freres, *à Sheffield, York,* A.—Coutellerie.

946 Morton, G., *à Londres,* A.—Coutellerie.

947 Moseley, J., et fils, *à Londres,* A.—Coutellerie. Aiguilles. Outils d'acier.

947*a* Nicholson, J.-H., *à Londres,* A.—Fourchettes perfectionnées pour empêcher que la crotte resterait entre les fourchons.

948 Nowill, J., et fils, *à Sheffield, York,* A.—Couteaux de table. Couteaux d'argent pour les fruits. Couteaux de poche. Canifs. Rasoirs. Boîtes à couteaux.

950 Oxley, G. et J., *à Sheffield, York,* A.—Couteaux de table. Couteaux de boucher et de cuisine. Tranchets. Couteaux de vitrier, de peintre, de vannier, etc.

952 Powell, J., *à Birmingham, Warwick,* A.—Objets divers faits d'acier.

955 Spencer et fils, *à Sheffield, York,* A.—Coutellerie.

957 Thornhill, W., *à Londres,* A.—Ciseaux; couteaux, canifs, rasoirs. Serpettes; sécateurs et instruments de jardinage. P. G.

959 Ward, Th., *à Sheffield, York,* A.—Couteaux d'acier fondu avec manche d'argent allemand d'ivoire, d'écaille ou de corne.

P. 962 Wilkinson, T., et fils, *à Sheffield, York,* A.—Coutellerie.

928 Bagshaw, R., *Stanley-street, Sheffield.* Cutlery. 1525

929 Beardshaw, G., *Tom Cross-lane, Sheffield.* Cutlery. 1526

932 Briggs, Samuel, *Solly-street, Sheffield.* Cutlery. 1529

933 Bell, J., and Son, *Mulberry-street, Sheffield.* Dressing-case instruments. 1530

935 Davy, Abraham, *Broomspring-lane, Sheffield.* Cutlery. 1532

939 Green, Alfred, *Pond-street, Sheffield.* Cutlery. 1536

940 Hawcroft and Sons, *Fitzwilliam-street, Sheffield.* Cutlery. 1537

941 Kingsbury, J., 7 *New Bond-street.* Razors. 1538

942 MacDaniel and Co., *Oxford-street, London.* Cutlery.

Palais. 943 Mappin, J., and Brothers, *Barker's-hill, Sheffield.* Cutlery. 1540

946 Morton, George, 39 *Cheapside.* Cutlery. 1543

947 Moseley, J., and Son, 17 *New-street, Covent-garden, London.* Cutlery, needles, and tools. 1544

947*a* Nicholson, J. H., *London.* Improved forks, which hinder dirt from remaining between the prongs.

948 Nowill, John, and Sons, *Meadow-street, Sheffield.* Cutlery. 1545

950 Oxley, G. and J., *Garden-street, Sheffield.* Cutlery. 1547

952 Powell, J., *New John-street, Birmingham.* Steel goods. 1549

955 Spencer & Sons, *Pea Croft, Sheffield.* Cutlery. 1553

957 Thornhill, W., 144 *New Bond-street, London.* Cutlery. 1555 P. G.

959 Ward, Thomas, *Brightmore-street, Sheffield.* Cutlery. 1557

962 Wilkinson, T., and Son, *New Church-street, Sheffield.* Cutlery. 1561 P.

P. 963 Wilson, John, et Fils, *à Sheffield, York*, A.—Coutellerie: outils pour les cordonniers, les bouchers, les cuisiniers, les corroyeurs, les maréchaux, les tisserands, les vitriers, etc.

P. G. 964 MacDaniel et Cie, *Londres*, A.—Coutellerie.

P. 965 Wostenholm, *à Sheffield, York*, A.—Coutellerie.

963 Wilson, John, and Sons, *Sycamore-street, Sheffield.* Cutlery: comprising shoe, butchers', cooks', curriers', farriers', weavers', putty, and palette knives, butchers' steels, &c. 1562 P.

964 MacDaniel and Company, *London.* Cutlery. 1563 P. G.

965 Wostenholm, G., *Washington Works, Sheffield.* Cutlery. 1565 P.

5e Section. *Outils d'acier.*

971 Bedford, J., *à Sheffield, York*, A.—Aciers. Limes. Outils tranchants. Scies.

975 Butterley, Hobson, et Cie, *à Sheffield, York*, A.—Faux et faucilles d'acier.

977 Firth, J., et fils, *à Sheffield, York*, A.—Outils tranchants.

978 Flather, D., et fils, *à Sheffield, York*, A.—Outils de menuisier et de charpentier. Agrafes dorées et gravées avec pièces d'acier bruni.

979 Garfitt, Th., et fils, *à Sheffield, York*, A.—Faux d'acier fondu. Hache-paille d'acier fondu.

981 Hill, J.-V., *à Londres*, A.—Scies. Outils d'acier.

982 Howarth, J., *à Sheffield, York*, A.—Instruments à l'usage des graveurs.

983 Jackson, W., et Cie, *à Sheffield, York*, A.—Outils tranchants d'acier.

984 Kenyon, J., et Cie, *à Sheffield, York*, A.—Outils tranchants d'acier.

985 King et Peach, *à Hull, York*, A.—Rabots. Série de pièces montrant les degrés de fabrication, depuis le bois brut jusqu'au rabot tout monté.

Palais.

989 Nash, R., *à Birmingham, Warwick*, A.—Outils; presse; dés.

990 Ibbotson, freres et Cie, *à Sheffield, York*, A.—Outils tranchants.

991 Saynor et Cooke, *à Sheffield, York*, A.—Serpe. Greffoir. Couteau pour écussons.

992 Spencer et Cie, *à Sheffield, York*, A.—Limes.

993 Sorry, J., et fils, *à Sheffield, York*, A.—Outils tranchants.

994 Spear et Jackson, *à Sheffield, York*, A.—Scies. Outils tranchants. Outils pour les corroyeurs, les mécaniciens, les serruriers. Instruments d'agriculture. Aciers et fils d'acier.

995 Taylor freres, *à Sheffield, York*, A.—Scies de tous genres. Instruments tranchants.

996 Taylor, H., *à Sheffield, York*, A.—Outils tranchants d'acier.

997 Timmins, R., et fils, *à Birmingham, Warwick*, A.—Outils de charpentier, de menuisier, de cordonnier, etc. Marteaux, compas, vrilles, etc.

998 Tomlin et Cie, *à Kettering, Northampton*, A.—Faux. Cisailles à tondre les moutons.

999 Turton et fils, *à Sheffield, York*, A.—Outils tranchants.

1000 Warner, J.-S., *à Sheffield, York*, A.—Outils tranchants.

1001 Wilcock, B. et J., *à Sheffield, York*, A.—Scies et outils tranchants.

Section 5. *Steel Tools.*

971 Bedford, J., *Regent's Works, Sheffield.* Edge tools. 1575

975 Butterley, Hobson, and Company, *Bole-hill, Sheffield.* Scythes, sickles, &c. 1579

977 Firth, J., and Son, *Sheffield.*—Edge tools.

978 Flather, D., and Sons, *Solly-street, Sheffield.* Edge tools. 1582

979 Garfitt, T., and Sons, *Thomas-street, Sheffield.* Scythes, sickles, &c. 1583

981 Hill, J. V., 5 *Chichester-place, Gray's-inn-road, London.* Saws and other tools. 1585

982 Howarth, J., *Sheffield*—Engravers' tools. 1609

983 Jackson, William, and Company, *Sheaf Island Works, Sheffield.* Edge tools. 1588

984 Kenyon, J., and Company, *Sheldon-street, Sheffield.* Edge tools. 1590

985 King and Peach, *Market-place, Hull.* Planes. 1591

Palais.

989 Nash, R., *Ludgate-hill-passage, Birmingham.* Dies, press, tools. 3204

990 Ibbotson, Brothers and Company, *Bernard-street, Sheffield.* Edge tools. 1587

991 Saynor and Cooke, *Edward-street, Sheffield.* Cutlery. 1551

992 Spencer and Company, *Hathersaye, Sheffield.* Files. 1598

993 Sorry, J., and Sons, *Spital-hill, Sheffield.* Edge tools. 1599

994 Spear and Jackson, *Etna Works, Sheffield.* Edge tools. 1600

995 Taylor, Brothers, *Adelaide Works, Sheffield.* Edge tools. 1602

996 Taylor, H., *Fitzwilliam-street, Sheffield.* Edge tools. 1601

997 Timmins, R., and Sons, *Pershore-street, Birmingham.* Carpenters' tools, &c. 1603

998 Tomlin and Company, *Kettering, Northamptonshire.* Sickles and sheep-shears. 1604

999 Turton and Sons, *Sheaf Works, Sheffield.* Edge tools. 1605

1000 Warner, J. S., *Portobello-street, Sheffield.* Edge tools. 1606

1001 Wilcock, B. and J., *Nursery-lane, Sheffield.* Edge tools. 1607

6e Section. *Fabrications diverses.*

Palais.

1005 Bartleet et fils, *à Redditch, Worcester*, A.—Aiguilles. Hameçons.

1006 Boulton, W., et fils, *à Redditch, Worcester*, A.—Aiguilles. Hameçons.

1006*a* Hincks et Wells, *à Birmingham*, A.—Plumes d'acier.

1007 James, J., *à Redditch, Worcester*, A.—Aiguilles. Hameçons.

Section 6. *Various Steel Manufactures.*

1005 Bartleet and Sons, *Redditch.* Needles and fish-hooks. 1619

1006 Boulton, W., and Son, *Redditch.* Needles and fish-hooks. 1620

1006*a* Hincks and Wells, *Buckingham-street, Birmingham.* Steel pens.

1007 James, J., *Redditch.* Needles, fish-hooks, &c. 1622

Palais.

Palais.
1008 Kirby, Beard, et Cie, *à Londres*, A.—Aiguilles. Epingles. Hameçons.
1009 Mason, J., *à Birmingham, Warwick*, A.—Plumes d'acier. Anneaux d'acier
1010 Millward, H., et fils, *à Redditch, Worcester*, A.—Aiguilles. Hameçons.
1011 Mitchell, J., *à Birmingham, Warwick*, A.—Plumes d'acier. Porte-plumes.
1012 Myers et fils, *à Birmingham, Warwick*, A.—Plumes d'acier. Porte-plumes.
1012*a* Peyton et Iles, *à Birmingham*, A.—Agrafes.

P. G. **1013** Perry, J., et Cie, *à Londres*, A.—Plumes d'or et d'argent; plumes argentées et dorées. Bandes élastiques. (Voir cl. 25.)

P. **1013***a* Rimmer, J., et fils, *à Alcesrer*, A.—Aiguilles.
1014 Spencer et fils, *à Sheffield, York*, A.—Aiguilles.
1015 Turner, J. et R., et Cie, *à Redditch, Worcester*, A.—Aiguilles. Hameçons.

1008 Kirby, Beard, and Company, *Cannon-street West, London.* Pins, needles, and fish-hooks. 1623
1009 Mason, J., 36 *Lancaster-street, Birmingham.* Steel pens and rings. 1624
1010 Millward, H., and Sons, *Redditch.* Needles and fish-hooks. 1625
1011 Mitchell, J., *Newhall-street, Birmingham.* Steel pens and holders. 1626
1012 Myers and Son, *Newhall-street, Birmingham.* Steel pens and holders. 1627
1012*a* Peyton and Iles, *Birmingham.* Hooks and eyes.
Palais.
P. G. **1013** Perry, J., and Company, 37 *Red Lion Square, London.* Pens, inkstands, &c. (See cl. 25.) 3092

1013*a* Rimmer, J., and Son, *Alcester.* Needles.
1014 Spencer and Sons, *Sheffield.*—Needles. 1553
1015 Turner, J. R., and Company, *Redditch.* Needles and fish-hooks. 1628
P.

16e CLASSE.

Fabrication des ouvrages en Métaux, d'un travail ordinaire.

1e Section. *Élaboration des Métaux et des Alliages durs par voie de moulage (sauf renvoi à la classe 1re et aux groupes II à IV).*

Palais.
1020 Bailey, W., et fils, *à Londres*, A.—Grande porte de fer fondu. Dessinée par J. D. Matthews.
1021 Baker, W.-L., *à Kimbolton, Huntingdon*, A.—Sonnettes.
1022 Barry, Sir Ch., *à Londres*, A.—Modèle en métal des chambres du Parlement du Royaume-Uni.
1023 Barwell, J., *à Birmingham, Warwick*, A.—Sonnettes et timbres.
1024 Hodges, T., *à Dublin*, I.—Cloche. Sonnettes.
1026 Murphy, J., *à Dublin*, I.—Cloche d'église.
1027 Wooldridge, J., *à Birmingham, Warwick*, A.—Bronzes pour l'ébénisteric et petits objets fondus en bronze.

2e Section. *Fabrication des feuilles, des fils, des gros tubes, etc., de Métaux et d'alliages durs.*

A. M. **1031** Birmingham Patent Tube Company, *à Birmingham*, A.—Tuyaux pour fourneaux.

P. **1032** Cornforth, J., *à Birmingham, Warwick*, A.—Fils de métal.

A. M. **1034** Everitt, Allen, et fils, *à Birmingham, Warwick*, A.—Fils de laiton. Laiton laminé. Tubes de bronze et de cuivre pour les locomotives, les chaudières de machines à vapeur, les machines à air ou à gaz, etc. Tubes ornés pour candélabres, appareils d'éclairage au gaz, etc.

1035 Hattersley, J., *à Leeds, York.*—Tuyaux.

P. **1035***a* Horsfall, J., *Birmingham*, A.—Fils breveté pour les instruments de musique.

1036 Jenkins, Hill et Jenkins, *à Birmingham, Warwick*, A.—Fil de fer recouvert du cuivre. Fils de fer pour agrafes et moules de bouton. Fils de fer bruni ou galvanisé. Fils de fer pour cages d'oiseaux; télégraphes pour se guider dans les mines et les puits, pour les parapluies, etc.

A. M. **1037** Johnson, Richard et freres, *à Manchester, Lancastre*, A.—Machine à tréfiler. Spécimens de fil de métal pour la télégraphie électrique aérienne et la télégraphie sous-marine. Fils de fer pour toutes sortes d'usages.

P. **1038** Moore, P., et fils, *à Birmingham, Warwick*, A.—Métaux laminés. Fils de laiton, de fer et d'acier. Tubes pour le gaz et les machines à vapeur. Gonds et charnières.

A. E. **1039** Russell, J., et Cie, *à Londres et à Wednesbury*, A.—Tuyaux de fonte de fer et appareils pour conduites de gaz, de vapeur et d'eau.

CLASS XVI.

General Metal Work.

Class 16. General Metal-work.

Section 1. *Elaboration of Metals and Alloys by Casting.*

Palais.
1020 Bailey, W., and Sons, *Gracechurch-street, London.* Gate of cast-iron. Designed by J. D. Matthews.
1021 Baker, William Lewis, *Hargrave, Kimbolton, Huntingdonshire.* Bells. 1641
1022 Barry, Sir Ch., *London.*—Model in metal of the Houses of Parliament. 1648
1023 Barwell, J., *Great Hampton-street, Birmingham.* Bells and cocks. 1642
1024 Hodges, T., 99 *Abbey-street, Dublin.* Bells. 1644
1026 Murphy, J., *Thomas-street, Dublin.* Bells. 1647
1027 Wooldridge, J., *St. Paul's-square, Birmingham.* Cabinet brassfoundry. 1135

Section 2. *Metals and Hard Alloys in Sheets, Wires, large Tubes, &c.*

A. M. **1031** Birmingham Patent Tube Company, *Birmingham.*—Boiler Tubes. 1667

P. **1032** Cornforth, J., *Berkeley-street, Birmingham.* Wire 1659

A. M. **1034** Everitt, Allen, and Son, *Adderley-street, Birmingham.* Wire tubes, &c. Bronze and copper tubes for locomotives, for gas apparatus, &c. 1661

1035 Hattersley, J., *Leeds.*—Tubes. 629

P. **1035***a* Horsfall, James, *Hay Mills, Birmingham.*—Patent music wire.

1036 Jenkins, Hill, and Jenkins, *George-street, Birmingham.* Iron wire of all descriptions sheathed in copper, galvanized, &c. 1662

A. M. **1037** Johnson, Richard, and Brothers, 27 *Dale-street, Manchester.* Patent wire-drawing machine, with specimens of manufacture for submarine telegraphic wires, &c. 549

P. **1038** Moore, Paul, and Son, 20 *Great Lister street, Birmingham.* Brass, iron, and steel wire. Hinges, &c. 1665

A. E. **1039** Russell and Company, 69 *Upper Thames-street, London.* Iron tubes. 1668

A. M. **1040** Russell et fils, *à Wednesbury, Stafford, et à Londres*, A.—Premiers brevetés et fabriquants de tubes en fer forgé pour le gaz, la vapeur, l'eau, etc. Brevetés de tuyaux fermés en double pour les chaudières de locomotives et celles en usage dans la marine, etc.

A. M. **1041** Steward, D.-T., et Cie, *a Glasgow, Lanark*, E.—Modèle de machine pour mouler les tuyaux de fonte de fer.

P. **1042** Wakefield, J.-T., *à Birmingham, Warwick*, A.—Fils de fer et objets faits de fil de fer.

3e Section. *Chaudronnerie, Tolerie, Ferblanterie et Elaborations diverses des feuilles de métaux et alliages durs.*

Palais.
1046 Clark et Cie, *à Wolverhampton, Stafford*, A.—Ustensiles de cuisine de fer forgé émaillé. Ustensiles de ménage bronzés par la galvano-plastie.
1047 Griffiths, J.-F., et Cie, *à Birmingham, Warwick*, A.—Batterie de cuisine de fer et de ferblanc. Vaisselle d'étain. Plateaux de papier mâché, de tôle vernie, et autres objets de ferblanc ou d'étain verni.
1048 Hopkins, J.-H., et fils, *à Birmingham, Warwick*, A.—Ustensiles de cuisine, d'étain, de fer galvanisé, de cuivre, de zinc ou de tôle vernie. Garnitures de table de toilette, fontaines à thé, flambeaux, plateaux, etc., de tôle ou d'étain vernis.

P. G. **1049** Hughes et Kimber, *à Londres*, A.—Planches de cuivre et d'acier pour la gravure.

P.
1050 Perry, Edward, *à Wolverhampton, Stafford*, A.—Objets de tôle, d'étain et de papier mâché, vernis.
1051 Rea et Webb, *à Birmingham, Warwick*, A.—Objets de tôle vernie.
1052 Shoolbred, Loveridge, et Cie, *à Wolverhampton, Stafford*, A.—Objets de tôle et de ferblanc vernis.

4e Section. *Elaborations diverses des fils de métaux et alliages durs.*

P.
1058 Butler, J.-R., *à Londres*, A.—Treillages de fils de métal.
1059 Nicklin et Sneath, *à Birmingham, Warwick*, A.—Toiles métalliques.

5e Section. *Grosse Serrurerie, Ferronnerie, Taillanderie et Clouterie.*

P **1063** Armitage et Cie, *à Sheffield, York*, A.—Enclumes: étaux; marteaux; essieux; outils; pièces de forge. Fers et aciers.

A. M. **1064** Dodds et fils, *à Rotherham, York*, A.—Ciseaux. Aciers.

Palais.
1065 Edge et fils, *à Coalport, Shrop.*, A.—Câbles-chaînes de fer plates et rondes pour la marine et les mines.
1066 Goodby et Chatwin, *à Birmingham, Warwick*, A.—Poulies à vis.
1066*a* Grice et Weston, *West Bromwich, Birmingham.*—Vis.
1067 Hart et fils, *à Londres*, A.—Pièces de serrurerie pour les portes.
1067*a* Jones, T. F., *à Birmingham*, A.—Fer forgé et fondu.
1068 Neve et Cie, *à Wolverhampton, Stafford*, A.—Clous taillés.
1069 Parkes, H.-P., *à Dudley, Worcester*, A.—Chaînes.
1070 Perriam, W.-H., *à Birmingham, Warwick*, A.—Vis mécaniques.
1071 Smith et Hawkes, *à Birmingham*, A.—Câbles, chaines, etc.
1073 White junior, Th., *à Thorpe Hesley, près de Rotherham, York*, A.—Clous.
1074 White junior, T., *à Thorpe Hesley, près de Rotherham, York*, A.—Crochets pour maintenir en place les réservoirs de gaz et d'eau. Clous perfectionnés pour le ferrage des chevaux. Clous de fer forgé d'un nouveau genre. Rivets de fer forgé.

6e Section.—*Petite Serrurerie et Quincaillerie.*

P. **1079** Allen et Moore, *à Birmingham, Warwick*, A.—Encriers; boutons; lampes; boites; pupitres; thermomètres; sonnettes; broches; boites à cigares et à tabac, et tous autres petits objets de métal.

1040 Russell and Sons, *Wednesbury, Staffordshire, and Upper Ground-street, London.* Original patentees and manufacturers of wrought iron tubes for gas, steam, water, &c.; also patentees of lap-welded tubes for locomotive and marine boilers, &c. A. M

1041 Steward, D. T, and Company, *Charles-street, St. Rollox, Glasgow.* Model of a machine for moulding cast-iron pipes. 503 A. M

1042 Wakefield, J. T., 74 *Lichfield-street, Birmingham.* Wire and wire goods. 1669 P.

Section 3. *Copper Ware, Sheet Iron, Tin Ware, &c.*

1046 Clark and Company, *Wolverhampton.* Wrought-iron and enamelled kitchen utensils, &c. 1658

1047 Griffiths, J. F., and Company, *Bradford-street, Birmingham.* Tin and japan ware. 1772

1043 Hopkins, J. H., and Sons, *Granville-street, Birmingham.* Tin, galvanized iron, and japan wares. 1773

Palais.

1049 Hughes and Kimber, 106 *Shoe-lane, London.* Copper and steel plates for engraving. 1671 P. G

1050 Perry, Edward, *Wolverhampton.* Tin and japan goods. 1774

1051 Rea and Webb, *St. Paul's-square, Birmingham.* Japanned works. 1775 P.

1052 Shoolbred, Loveridge, and Company, *Wolverhampton.*—Tin and japanned goods.

Section 4. *Metal Wire-work.*

1058 Butler, J. R., 4 *Elm-street, Gray's-inn-lane, London.* Wire work. 1706

1059 Nicklin and Sneath, *Bradford-street, Birmingham.* Wire-weaving, &c. 1666 P.

Section 5. *Ironmongery and Nail-making.*

1063 Armitage and Company, *Mousehole-forge, Sheffield.* Anvils, hammers, and forge utensils in general. 1681 P.

1064 Dodds and Son, *Rotherham.* Chizels. Patent axles. 1682 A. M

1065 Edge and Son, *Coalport, near Ironbridge, Coalbrookdale, Salop.* Flat and round chains. 1683

1066 Goodby and Chatwin, *Birmingham.*—Screw pulleys.

1066*a* Grice and Weston, *West Bromwich, Birmingham.* Screws.

1067 Hart and Son, 53, 54, *and* 55 *Wych-street, Strand.* Door locks and fastenings. 1717

1067*a* Jones, T. F., *Birmingham.* Iron work.

1068 Neve and Co., *Wolverhampton.* Cut nails. 1685

Palais.

1069 Parkes, H. P., *Dudley.* Chains. 1686

1070 Perriam, W. H., *Lawley-street, Birmingham.* Machine screws, 1687

1071 Smith and Hawkes, *Birmingham.* Chains, &c.

1073 White, Thomas, jun., *Thorpe Hesley, near Rotherham.* Nails. 1690

1074 White, T., jun., *Thorpe Hesley.*—Hooks for fixing gas and water reservoirs; nails for horseshoes. Wrought-iron nails; wrought-iron rivets. 1690

Section 6. *Locksmiths' Work and Hardware.*

1079 Allen and Moore, *Great Hampton Row, Birmingham.* Fancy metal-work. 1701 P.

1080 Bisseker, J.-J., *à Birmingham*, A.—Ecriteaux.

1081 Boobbyer, J.-H., *à Londres*, A.—Gonds pour portes; verrous; châssis de croisée; serrures; pièces de serrure; poignées, boutons et plaques de porte, et autres objets de bronze ou de fer.

1082 Bramah et Cie, *à Londres*, A.—Coffres de sûreté à l'épreuve du feu. Cassettes, serrures. Boîtes aux lettres. Plumes et porte-plumes. Water-eloset. (Voir cl. 4.)

1083 Chubb et fils, *à Londres*, A.—Serrures de sûreté. Coffres à l'épreuve du feu. Boîtes de tôle ou d'étain verni, à serrure de sûreté.

1084 Cope et Collinson, *à Londres*, A.—Objets de quincaillerie de bronze, de cuivre ou de fer, pour l'ameublement.

1085 Cottam et Hallen, *à Londres*, A.—Objets de fer.

1086 Cotterill, E., *à Birmingham, Warwick*, A.—Serrures.

1089 Finlay, J., *à Glasgow, Lanark*, E.—Grilles de foyer à registre et garniture complète de cheminée.

1091 Gray, A., et fils, *à Birmingham, Warwick*, A.—Garnitures de foyer.

1092 Hale et Cie, *à Bristol, Somerset*, A.—Marteaux et boutons de porte; espagnolettes; gonds, mouvements de sonnettes; ferrures de portes et de fenêtres, crochets et autres objets de quincaillerie.

1093 Hayward et fils, *à Londres*, A.—Serrures.

1094 Hobbs, Ashley et Cie, *à Londres*, A.—Serrures.

1094*a* Holland, *à Woolwich, près de Londres*, A.—Serrures: la serrure "Albion" et la clef "Albion."

1096 Kenrick, A., et fils, *à West Bromwich, Stafford*, A.—Ustensiles de cuisine et de ménage faits de fonte émaillée. Baignoires, conduites de gaz et d'eau émaillées. Moulins à café, poulies, charnières et autres articles de quincaillerie.

1097 Lea, W. et J., *à Wolverhampton, Stafford*, A.—Objets de laiton.

1098 Moreton et Langley, *à Wolverhampton, Stafford*, A.—Quincaillerie.

1099 Parnell et Puckridge, *à Londres*, A.—Serrures de sûreté à l'épreuve du feu.

1100 Ratcliff, J. et E., *à Birmingham, Warwick*, A.—Objets de laiton et de cuivre.

1101 Smith, J., et fils, *à Birmingham*, A.—Objets de bronze, etc.

1101*a* Tann, J., *à Londres*, A.—Serrures de sûreté brevetées.

1102 Taylor, W., *à Birmingham, Warwick*, A.—Volets.

1103 Taylor et Allen, *à Birmingham, Warwick*, A.—Quincaillerie.

1104 Tonks, W., et fils, *à Birmingham, Warwick*, A.—Marteaux et boutons de porte; espagnolettes; gonds; mouvements de sonnette; ferrures de porte et de fenêtre; crochets et autres objets de quincaillerie.

1105 Tucker et Reeves, *à Londres*, A.—Serrures de sûreté

1106 Faun, John, 1 *Hope-street, Hackney, à Londres*, A.—Serrure de sûreté.

1108 Windle, Blyth et Windle, *à Walsall, Stafford*, A.—Serrures de portes et de meubles. Plumes d'acier.

7e Section. *Elaborations du Zinc.*

P. **1114** Wilson, R. et W., *à Londres*, A.—Baignores.

8e Section. *Elaborations du Plomb.*

1080 Bisseker, J. J., *Birmingham.* Bottle labels.

1081 Boobbyer, J. H., and Company, 14 *Stanhope-street, Strand, London.* Door locks, hinges, and handles, &c. 1704

1082 Bramah and Company, 124 *Piccadilly.* Locks, pens, and fire proof safes. (See cl. 4.) 1705

1083 Chubb and Son, 57 *St. Paul's Churchyard, London.* Locks and fire-proof safes. 1707

1084 Cope and Collinson, 53 *Berwick-street, London.* Brass foundry. 1708

1085 Cottam and Hallen, 2 *Winsley-street, Oxford-street, London.* Iron work. 1709

1086 Cotterill, E., 50 *Upper Temple-street, Birmingham.* Locks. 1710

1089 Finlay, John, *Glasgow.* Grates. 1703

1091 Gray, A., and Son, *Weaman-street, Birmingham.* Fire irons. 1715

1092 Hale and Company, *Bristol.* Brass foundry.

1093 Hayward and Son, 1 *Suffolk-street, Clerkenwell, London.* Locks. 1718

1094 Hobbs, Ashley, and Company, 97 *Cheapside.* Locks. 1719

1094*a* Holland, *Woolwich.* Locks, the "Albion" lock and "Albion" key-guard.

1096 Kenrick, A., and Sons, *West Bromwich.* Cast-iron and enamelled hollow ware. Coffee mills, &c. 1663

1097 Lea, W. and J., *Wolverhampton.* Brass goods. 1723

1098 Moreton and Langley, *Wolverhampton.* Hardware. 1724

1099 Parnell and Puckridge, 52 *Strand.* Locks. 1725

1100 Ratcliff, J. and E., *St. Paul's-square, Birmingham.* Brass foundry and chandeliers. 1726

1101 Smith, J., and Son, *Bartholomew Brass Foundry, Birmingham.*

1101*a* Tann, John, *Hackney-road, London.* Patent locks.

1102 Taylor, W., 11 *Sheepcote-street, Birmingham.* Shutters. 1730

1103 Taylor and Allen, *Bromsgrove-street, Birmingham.* Hardware. 1728

1104 Tonks, W., and Sons, *Cheapside, Birmingham.* Door knockers, handles, hinges, fastenings, &c. 1731

1105 Tucker and Reeves, 181 *Fleet-street, London.* Locks. 1736

1106 Faun, John, 1 *Hope-street, Hackney.* Patent bank lock. 1740

1108 Windle, Blyth, and Windle, *Walsall.* Locks and steel pens. 1734

Section 7. *Zinc Work.*

1114 Wilson, R. and W., 49 *Wardour-street, London.* Baths. 1748 P.

Section 8. *Lead Works.*

9e Section. *Elaborations de l'Etain et des Alliages blancs divers.*

P. 1117 Dixon, J., et fils, *à Sheffield, York*, A.—Objets de métal anglais.
1118 Stocker freres, *à Londres*, A.—Poterie d'étain. (Voir cl. 6.)

10e Section. *Elaborations industrielles des Métaux précieux.*

1121 Benhams et Froud, *à Londres*, A.—Appareil de platine pour la concentration de l'acide sulfurique; creusets et capsules de platine; fils de platine.
A. E. 1122 Elliby, W., et Cie, *à Birmingham, Warwick*, A.—Plumes d'or.
1123 Johnson et Matthey, *à Londres*, A.—Métaux obtenus par l'affinage des métaux précieux. Argent, or, platine, palladium, iridium, rhodium, uranium, etc.
1124 Law, J., *à Londres*, A.—Or et argent en feuilles.
P. 1125 Wiley, W.-E., et Cie, *à Birmingham, Warwick*, A.—Plumes d'or; plumes d'or et d'argent; plumes d'argent à pointes d'iridium et d'osmium.

Section 9. *Tin Work and various White Alloys.*

1117 Dixon, J., and Sons, *Cornish-place, Sheffield.* Britannia-metal goods. 1770
1118 Stocker, Brothers, 3 *and* 4 *Arthur-street, New Oxford-street, London.* Beer engines, lift-pumps, and pewter goods. (See cl. 6.) 1747 P.

Section 10. *Precious Metals.*

1121 Benhams and Froud, *London.* Platina apparatus for concentrating sulphuric acid; platina crucibles; platina wire. 1791
1122 Elliby, W., and Company, 34 *Great Hampton-street, Birmingham.* Gold pens. 1793 A. E.
1123 Johnson and Matthey, 78 *Hatton Garden, London.* Metallic products arising from the refining of precious metals. 1792
1124 Law, J., 3 *North-side, Bethnal-green, London.* Gold and silver leaf, &c. 1068
1125 Wiley and Company, *Great Hampton-street, Birmingham.* Gold and steel pens. Steel pens pointed with iridium and osmium. 1630 P.

Class 17. Precious Metals.

17e CLASSE.

Orfévrerie, Bijouterie, industrie des Bronzes d'art.

1e Section. *Procédés de l'Orfévrerie, de la Bijouterie, etc.*

2e Section. *Taille et Gravure des pierres employées en bijouterie.*

3e Section. *Orfévrerie en métaux précieux.*

Palais gallery.
1134 Donne et fils, *à Londres*, A.—Orfévrerie d'argent ciselé.
1135 Garrard, R. et S., et Cie, *à Londres*, A.—Orfevrerie d'or et d'argent.
1136 Hancock, C.-F., *à Londres*, A.—Orfévrerie et bijouterie d'argent.
1137 L'honorable Compagnie des Orfevres de la Cité de Londres, *à Londres*, A.—Candélabres et surtouts de table faits d'argent massif.
1138 Hunt et Roskell, *à Londres*, A.—Orfévrerie d'argent; joaillerie.
1140 Prime, Th., et fils, *à Birmingham, Warwick*, A.—Orfévrerie d'argent pour la table, savoir: plats, théières, cafetières, réchauds, huiliers, salières couverts, etc. Orfévrerie de décoration, surtout de table, candélabres, vases, etc. Orfévrerie argentée par l'électricité.

4e Section. *Orfévrerie en métaux communs enduits ou plaqués de métaux précieux.*

1144 Brooks, F. J., *à Birmingham*, A.—Orfévrerie argentée par l'électricité.
P. G. 1145 Cartwright, Hirons et Woodward, *à Birmingham, Warwick*, A.—Candelabres et service de table argentés par l'électricité.
1146 Collis, G.-R., *à Birmingham, Warwick*, A.—Orfévrerie argentée par l'électricité.
P. 1147 Elkington, Mason et Cie, *à Birmingham, Warwick*, A.—Orfévrerie argentée par l'électricité.

CLASS XVII.

Goldsmith's and Silversmith's Work, Jewellery, Bronzes, &c.

Section 1. *Processes used in Goldsmiths' Work.*

Section 2. *Cutting and Engraving of Stones used in Jewellery.*

Section 3. *Manufactures of Precious Metals.*

Palais gallery.
1134 Donne and Sons, 5 *Great Vine-street, Regent-street, London.* Engraving on silver. 1820
1135 Garrard, R. and S., and Company, *Panton-street, Haymarket, London.* Gold and silver plate. 1818
1136 Hancock, C. F., 39 *Bruton-street, Bond-street, London.* Jewellery. 1849
1137 Goldsmiths, The Worshipful Company of, *Foster-lane, London.* Gold plate. Candelabra and epergnes of massive plate. 1823
1138 Hunt and Roskell, 156 *New Bond-street, London.* Silver plate and jewellery. 1816
1140 Prime, T., and Son, *Northwood-street, Birmingham.* Silver plate, &c. Table plate of every description. 1821

Section 4. *Plated Goods.*

1144 Brooks, F. J., *Birmingham.* Electro-plate.
1145 Cartwright, Hirons, and Woodward, *Great Charles-street, Birmingham.* Electro-plate and silver wares. 1833 P.
1146 Collis, G. R., *Church-street, Birmingham.* Electro-plate. 1834
1147 Elkington, Mason, and Company, *Newhall-street, Birmingham.* Specimens of the electro-plate in dinner, dessert, and tea services. Centre pieces, and of work in solid silver. Bronze articles of vertu, and fine arts in the precious metals. 1835 P.

PARKIN et MARSHALL,—Vaisselle argentee par la galvanoplastie. (Voir cl. 15.)

1148 ROUND, J., *à Sheffield, York*, A.—Objets en plaqué.

1149 SANSOM et DAVENPORT, *à Sheffield, York*, A.—Orfévrerie faite d'argent allemand et argentée par l'électricité.

1150 SHAW et FISHER, *à Sheffield, York*, A.—Orfévrerie faite de métal *britannia* et argentée par l'électricité.

1151 SKINNER, COULSON et BRANSON, *à Sheffield, York*, A.—Orfévrerie de plaqué.

1152 SPURRIER, W., *à Birmingham, Warwick*, A.—Orfévrerie faite de métal *britannia* et argentée par l'électricité.

1152*a* STURGES, R. F., *à Birmingham*, A.—Orfévrerie argentée par l'électricité.

1153 WILKINSON, T., et CIE, *à Birmingham, Warwick*, A.—Surtout de table et plateau de métal argenté par l'électricité.

PARKIN and MARSHALL. Plate silvered by galvanoplasty. (See cl. 15.)

1148 ROUND, J., *Tudor-street, Sheffield.* Plated goods. 1776

1149 SANSOM and DAVENPORT, *Rockingham-street, Sheffield.* Electro-plated goods. German silver plate. 1777

1150 SHAW and FISHER, *Suffolk-road, Sheffield.* Britannia-metal goods and electro-plated ware. 1778

1151 SKINNER, COULSON, and BRANSON, *Sycamore-street, Sheffield.* Plated goods. 1779

1152 SPURRIER, W., *Newhall-street, Birmingham.* Electro and British plate, Britannia metal. 1780

1152*a* STURGES, R. F., *Birmingham.* Electro-plate.

1153 WILKINSON, T., and COMPANY. 15 *Great Hampton-street, Birmingham*, and 41 *Tavistock-street, Covent-Garden, London*, Epergne and plateau. 1822

PALAIS. PALAIS. G. P. G.

5e SECTION. *Joaillerie et Bijouterie.*

SECTION 5. *Jewellery.*

1159 BROWN, J., *à Londres*, A.—Bijouterie de métaux précieux.

1161 PHILLIPS, R., *à Londres*, A.—Statuettes d'argent et d'or, d'après des modèles antiques. Bracelets d'après l'antique. Emaux. Chaines d'or. Bijoux de corail montés en or.

1162 TOCKNELL, W.-J., *à Birmingham, Warwick*, A.—Incrustations d'or.

1163 WATERHOUSE et CIE, *à Dublin*, I.—Broches d'argent d'après l'antique.

1163*a* WATHERSTON et BROGDEN, *à Londres*, A.—Joaillerie pour la bourgeoisie.

1164 BISSON, M., *Jersey.*—Joaillerie.

1159 BROWN, JOSEPH, 43 *Jewin-street, London.* Work in precious metals. 1816

1161 PHILLIPS, R., 31 *Cockspur-street.* Jewellery. Statuettes in gold and silver after antique models. Bracelets after the antique. 1850

1162 TOCKNELL, W. J., 18 *New John-street West, Birmingham.* Gold inlaying, &c. 1847

1163 WATERHOUSE and COMPANY, 25 *Dame-street, Dublin.* Jewellery after antique Irish models. 1876

1163*a* WATHERSTON and BROGDEN, *Covent Garden, London.* Jewellery for the middle classes.

1164 BISSON, M., *St. Hilliers, Jersey.* Jewellery.

PALAIS GALLERY. PALAIS GALLERY.

6e SECTION. *Joaillerie et Bijouterie d'imitation.*

SECTION 6. *Imitation Jewellery of all kinds.*

7e SECTION. *Bijouterie de matières diverses.*

SECTION 7. *Jewellery made of various Materials.*

1165 CONNELL, MRS., *Dublin*, I. Objets de parure faits de chêne fossil.

1166 GOGGIN, C., *à Dublin*, I.—Bijoux faits de chêne fossile des lacs d'Irlande, montés en or et argent d'Irlande, et ornés de diamants, améthystes, emeraudes, perles et malachite d'Irlande.

1167 GOGGIN, J., *à Dublin*, I.—Objets de parure faits de chêne fossile trouvé dans les lacs d'Irlande.

1167*a* HOLT, R. B., *à Londres*, A.—Ornements en jais.

1168 RETTIE, M., et FILS, *à Aberdeen*, E.—Broches, bracelets, boutons, épingles, cachets, etc., de granit, avec monture d'argent.

1169 SLATER, D., *à Whitby, York*, A.—Jais brut. Broches-bracelets, colliers et parures de jais.

1165 CONNELL, MRS., *Dublin.* Bog oak ornaments.

1166 GOGGIN, C., 13 *Nassau-street, Dublin.* Irish bog oak. 1870

1167 GOGGIN, J., 74 *Grafton-street, Dublin.* Bog oak, Galway marble, &c. 1871

1167*a* HOLT, R. B., *London.* Jet ornaments.

1168 RETTIE, M., and SONS, *Aberdeen.* Granite jewellery, bracelets, brooches, pin-chains, buttons, and silver brooches. 1873

1169 SLATER, DAVID, *Church-street, Whitby, Yorkshire.* Rough and manufactured jet. 1875

PALAIS GALLERY. PALAIS GALLERY

8e SECTION. *Industrie des Bronzes d'Art.*

SECTION 8. *Bronzes.*

P. 1173 COALBROOKDALE IRON COMPANY, *à Coalbrook Dale, Shrop.*, A.—Le *Tueur d'Aigle*, statue de fonte. Fer forgé en barres, tôle, plaques, etc. Fer fondu et bronze pour toute espece d'ouvrages, simples ou ornées. Fer préparé avec l'électro-bronze.

P. S. 1174 LA CORPORATION DE LIVERPOOL, *à Liverpool, Lancastre*, A.—Lustre de bronze pour la salle Saint-Georges.

P. G. 1176 L'UNION DES ARTS DE LONDRES (*Art Union*), *à Londres*, A.—Bronzes et statuettes. (Voir cl. 26.)

1173 COALBROOKDALE IRON COMPANY, *Coalbrook-dale, Shropshire.* The Eagle Slayer, in iron. Wrought iron bars, sheets, &c. Cast iron and bronze for all description of works, simple or ornamental. Iron electro-bronzed. 1883 P.

1174 LIVERPOOL CORPORATION, *Liverpool.* Brass chandelier of St. George's Hall. 1880 P. S.

1176 ART UNION OF LONDON, 444 *Strand, London.* Bronzes and statuettes. (See cl. 26.) 1882 P.

18e CLASSE.

Industries de la Verrerie et de la Céramique.

1e SECTION. *Procédés généraux de la Verrerie et de la Céramique.*

CLASS XVIII.

Glass and Pottery.

Class 18. Glass and Pottery.

SECTION 1. *General Processes used in making Glass and Pottery.*

2e Section. *Verre à vitres et à glaces.*

P. S. **1181** Ballantine, J., *à Edimbourg*, E.—Verres à vitre de couleur. Fenêtre commémorative de l'union entre la France et l'Angleterre. Fenêtre commémorative des poëtes écossais.

P. **1183** James, W.-H., *à Londres*, A.—Verres à vitre taillés et gravés par procédé mécanique.

3e Section. *Verre à bouteilles et Verre de gobeletterie.*

P. **1187** Aire and Calder Glass Bottle Company, *à Londres*, A.—Bouteilles de verre.

4e Section. *Cristal.*

P. G. & P. S. **1189** Defries et fils, *à Londres*, A.—Verre taillé et lustres de cristal.

P. **1190** Faraday et fils, *à Londres*, A.—Lustre de verre pour éclairage au gaz.

1192 Osler et Cie, *à Birmingham, Warwick*, A.—Candélabre de cristal.

5e Section. *Verres, Cristaux et Emaux divers pour pièces d'optique, Objets d'ornement, etc.*

P. S. & P. G. **1196** Chance freres et Cie, *à Oldbury, près de Birmingham, Warwick*, A.—Verres à vitres. Verres de couleur. Verres pour le vitrage des serres. Verres et lentilles pour les télescopes, les microscopes, les instruments d'optique, les chambres noires, les phares, les fanaux de signal, etc. etc.

Palais. **1197** Daniell, Messrs., *à Londres*, A.—Verres.

1198 Hartley, J., et Cie, *à Sunderland, Durham*, A.—Verres et cristaux.

1199 Lloyd et Summerfield, *à Birmingham, Warwick*, A.—Verres et cristaux.

1200 Swinbourne et Cie, *à Londres*, A.—Verrerie épaisse, opaque et coloriée.

6e Section. *Poteries communes et Terres cuites.*

P. **1202** Bourne et fils, *à Derby*, A.—Bouteilles d'argile de Derby pour contenir de l'encre, du cirage, des bières fortes ou de l'eau bouillante. Vases ornés pour appartements; vases à refroidir le beurre, fabriqués avec la même argile.

1203 Cartwright et fils, *à Swadlincote, Derby*, A.—Briques réfractaires.

1203a Ramsay, G. H., *à Newcastle-upon-Tyne.* Briques réfractaires; retorts.

P. **1205** Marsh, J., *à Stoke-sur-Trent, Stafford*, A.—Objets de terra-cotta.

A. E. **1206** Perrens et Harrison, *à Stourbridge, Worcester*, A.—Argile pour la fabrication des creusets de verrerie. Briques d'argile de Stourbridge.

P. **1207** Shaw et fils, *à Burslem, Stoke-sur-Trent.*—Poteries.

7e Section. *Faïences.*

Palais. **1211** Chambers junior, W., *à Llanelly, Carmarthen*, A.—Faïences.

1212 Cork et Edge, *à Stoke-sur-Trent, Stafford*, A.—Faïences.

1213 Elsmore, Forster et Cie, *à Stoke-sur-Trent, Stafford*, A.—Faïences et grès.

1214 Minton, H., et Cie, *à Stoke-sur-Trent, Stafford*, A.—Porcelaines Biscuits. Faïences fines. Poteries de terre et de grès émaillées ou vernissées. Majoliques. Tuiles unies et tuiles peintes.

1215 Morley, F., et Cie, *à Stoke-sur-Trent, Stafford*, A.—Objets de tout genre faits de porcelaine anglaise (*ironstone china*) et de faïence.

Section 2. *Window Glass and Mirror Glass.*

1181 Ballantine, James, 42 *George-street, Edinburgh.* Stained glass. Window commemorating the union of France and England. Window commemorating the poets of Scotland. 1888 P. S.

1183 James, W. H., 37 *High-street, Camden-town, London.* Ornamented window glass. Glass vessels cut and graven by machinery. 2000 P.

Section 3. *Bottle Glass.*

1187 Aire and Calder Glass Bottle Company, 5 *Ludgate-hill, London.* Glass bottles. 1900 P.

Section 4. *Crystal.*

1189 Defries and Sons, 117 *Houndsditch, London.* Cut-glass and chandeliers. 1911 P. G. P. S.

1190 Faraday and Son, 114 *Wardour-street, London.* Gas glass chandelier. 1712

1192 Osler and Company, *Birmingham.* Glass candelabrum. 1913 P.

Section 5. *Glass, Crystal, &c., for Optical Instruments, Ornaments, &c.*

1196 Chance, Brothers, and Company, *Oldbury, near Birmingham.* Glass vessels. Coloured glass. Lenses, &c. 1923 P. S. P. G.

1197 Daniell, Messrs., 129 *New Bond-street, London.* Glass. (See 1241.) 1925

1198 Hartley, James, and Company, *Wear Glass-works, Sunderland.* Glass. 1901

1199 Lloyd and Summerfield, *Spring Hill, Birmingham.* Glass. 1924

1200 Swinbourne and Company, *London.* Glass. Thick, opaque, and coloured. Palais.

Section 6. *Common Pottery and Terra Cotta.*

1202 Bourne and Son, *Denby Pottery, near Derby.* Earthenware. 1973 P.

1203 Cartwright and Son, *Swadlincote, near Burton-on-Trent, Derbyshire.* Fire bricks. 1395

1203a Ramsay, G. H., *Newcastle-upon-Tyne.* Fire bricks and retorts.

1205 Marsh, J., *Middleport, Longport, Stoke-upon-Trent.* Terra cotta. 1937 P.

1206 Perrens and Harrison, *Lye Clay Works, Stourbridge, Worcestershire.* Clay used in the manufacture of glass-house pots, bricks made from Stourbridge clay. 71 A. E.

1207 Shaw and Son, *Burslem, Stoke-upon-Trent.* Earthenware. 1938 P.

Section 7. *Faïence.*

1211 Chambers, William, jun., *South Wales Pottery, Llanelly, Carmarthenshire.* Earthenware. 1961

1212 Cork and Edge, *Queen-street, Burslem, Stoke-upon-Trent.* Earthenware. 1962

1213 Elsmore, Forster, and Company, *Tunstall, Stoke-upon-Trent.* Earthenware. 1963

1214 Minton, H., and Company, *Stoke-upon-Trent.* China and earthenware. Tiles varnished and enamelled. 1984

1215 Morley, F., and Company, *Shelton, Stoke-upon-Trent.* Earthenware, &c. Ironstone, china. 1966 Palais.

Palais.

1216 Pepper, El., *à Stoke-sur-Trent, Stafford,* A.—Services de table en faïence décorée par transport d'impressions.

1217 Pinder, Bourne et Hope, *à Stoke-sur-Trent, Stafford,* A.—Faïences.

1219 Pratt, F.-R., et Cie, *à Fenton, Stafford,* A.—Faïences.

1220 Ridgway, J., et Cie, *à Stoke-sur-Trent, Stafford,* A.—Porcelaine anglaise. Faïence fine. Terres cuites d'ornament. Faïence de ménage et faïence à couverte d'argent.

1221 Walker, Podmere, et Cie, *à Stoke-sur-Trent, Stafford,* A.—Services de table et à thé de faïence imprimée en une ou plusieurs couleurs.

1222 Wedgwood, J., et fils, *à Stoke-sur-Trent, Stafford,* A.—Faïences (*cream-colour*) légères, blanches, imprimées, émaillées. Grès. Biscuits pour cornues, ercusets et instruments de chimie. Porcelaines blanches et biscuits; porcelaine opaque, dite *jasper.*

1216 Pepper, E., *Shelton, Stoke-upon-Trent.* Earthenware. 1967

1217 Pinder, Bourne, and Hope, *Burslem, Stoke-upon-Trent.* Earthenware. 1968

1219 Pratt, F. R., and Company, *High-street, Fenton, Stoke-upon-Trent.* Toilet ware. 1985

1220 Ridgway, J., and Company, *Cauldon-place, Shelton, Stoke-upon-Trent.* Porcelain, &c. Delph and terra-cotta. 1986

1221 Walker, Podmere, and Company, *Stoke-upon-Trent.* Dinner and tea services in one or several colours. 1971

1222 Wedgwood, J., and Sons, *Etruria, Stoke-upon-Trent.* Porcelain moulded and enamelled. Chemical vessels. Opaque porcelain, styled jasper. 1987

Palais.

8e Section. *Poteries-grès.*

Palais.

1226 Singer et Green, *Vauxhall, à Londres,* A.—Appareils de chimie perfectionnés. Filtres, etc., de grès et terra-cotta. Mosaïque.

1227 Baker, W., et Cie, *à Stoke-sur-Trent, Stafford,* A.—Poteries de grès.

1228 Doulton et Cie, *à Londres,* A.—Creusets, cornues, capsules, tubes et autres instruments de chimie de grès et de faïence.

1229 Green, S., *à Londres,* A.—Appareils de Woolf de sublimation, de condensation, etc. Jarres et bouteilles pour l'acide sulfurique, le *soda-water,* etc. Vases de grès avec émail de feldspath sans plomb ni sel.

1230 Hughes, T., *à Stoke-sur-Trent, Stafford,* A.—Porcelaine et grès.

1231 Till, T., et fils, *à Stoke-sur-Trent, Stafford,* A.—Poteries de grès.

Section 8. *Stone Ware.*

1226 Singer and Green, *Vauxhall, London.* Improved chemical apparatus. Filters in stone and terra-cotta. Mosaics. 1975

1227 Baker, W., and Company, *Fenton Potteries, Stoke-upon-Trent.* Sandstone ware. 1959

1228 Doulton and Company, *High-street, Lambeth, London.* Stone ware, pipes, &c. 1935

1229 Green, S., *Princes-street, Lambeth, London.* Stone ware. Woolf's apparatus for the sublimation and condensation of sulphuric acid. Vessels of feldspath without lead or salt. 1936

1230 Hughes, T., *Waterloo-road, Burslem, Stoke-upon-Trent.* Earthenware. 1964

1231 Till, T., and Son, *Sytch Pottery, Burslem, Stoke-upon-Trent.* Sandstone earthenware. 1970

Palais.

9e Section. *Porcelaines.*

Palais.

1235 Baggeley, H., *à Stoke-sur-Trent, Stafford,* A.—Cruchons à bière en biscuit.

1236 Copeland, W.-T., *à Stoke-sur-Trent, Stafford,* A.—Porcelaines.

1237 Harding et Cockson, *à Stoke-sur-Trent, Stafford,* A.—Porcelaines.

1238 Kerr et Cie, *à Worcester,* A.—Porcelaines décorées. Faïences fines.

1239 Mayer, J.-Til. et Jos., *à Stoke-sur-Trent, Stafford,* A.—Services de table et de dessert en porcelaine anglaise et en faïence. Statuettes, vases, ornements de surtout de table; palettes, ustensiles pour la chimie et la photographie, faits de biscuit ou de porcelaine. Ustensiles de ménage en faïence pour les Etats-Unis et l'Amérique du Sud.

1240 Mountford, J., *à Stoke-sur-Trent, Stafford,* A.—Statuettes de porcelaine et de biscuit. Services de table et de dessert; vases, cruchons et objets de fantaisie, faits de porcelaine.

1241 Rose, J., et Cie, *à Coalbrook-Dale, Shrop.,* et Mess. Daniell, *à Londres,* A.—Services de table et de dessert en porcelaine. Vases d'ornement de porcelaine. Service à dessert en porcelaine bleu-turquoise peinte, avec surtouts et pièces de milieu en biscuit.

Section 9. *Porcelain.*

1235 Baggeley, H., 36 *Edmund-street, Hanley, Stoke-upon-Trent.* Parian jugs. 1998

1236 Copeland, W. T., *Stoke-upon-Trent.* Articles in porcelain, &c. 1981

1237 Harding and Cockson, *Cobridge, Stoke-upon-Trent.* China ware. 1982

1238 Kerr and Company, *Porcelain Works, Worcester.* China and porcelain. 1983

1239 Mayer, J. T., and J., *Dale Hall, Longport, Stoke-upon-Trent.* Porcelain and Earthenware for use and ornament. 1965

1240 Mountford, J., *John-street, Stoke-upon-Trent.* Statuettes, &c. Table services and ornaments. 2001

1241 Rose, J., and Company, *Coalbrook Dale, Shropshire* (with Messrs. Daniell), 129 *New Bond-street London.* China in blue turquoise tint and Rose de Barry. 1988

Palais.

10e Section. *Objets de céramique et de verrerie ayant spécialement une valeur artistique (sauf renvoi aux classes XXVIII et XXIX).*

Section 10. *Ceramic and Glass Manufactures, valued in an artistic point of view.*

P. s. 1248 Hardman, J., et Cie, *à Birmingham, Warwick,* A.—Peintures sur verre. Portions de la grande fenêtre au bout de "Westminster Hall." Figures des Quatre Evangelistes, de l'église de Blickling, à Norfolk. Groupes de la vie de St-Jean l'Evangeliste, de l'église de Toft, Cheshire.

1248 Hardman, J., and Company, *Birmingham.* Stained glass. Portions of the great window at the end of Westminster Hall, and from the corridor leading to the House of Lords. Figures of the Four Evangelists, from the parish church of Blickling, Norfolk. Groups from the life of St. John the Evangelist, church of Toft, Cheshire. (See 1181 and 1196.) 1890 P. s.

19e CLASSE.

Industrie des Cotons.

1e Section. *Matériel de l'industrie des Cotons (sauf renvoi aux classes VII. et X.)*

2e Section. *Cotons bruts, préparés et filés.*

1252 Brook, J., et freres, *à Huddersfield, York*, A.—Coton en laine, coton aux divers degrés de préparation. Fils de coton à coudre, à broder, à faire de la dentelle, de la guipure, etc.

* Carlile, J., fils et Cie.—Fils de coton. (Voir cl.22.)

1253 Clapperton, W., et Cie, *à Paisley, Renfrew*, E.—Fils de coton.

1254 Clark, J. et J., et Cie, *à Paisley, Renfrew*, E.—Fils de coton à coudre.

1255 Clarke, J.-P., *à Leicester*, A.—Fils de coton à coudre.

1256 Clarke junior, J., et Cie, *à Glasgow, Lanark*, E.—Fils de coton à coudre blancs et teints.

1257 Coats, J. et P., *à Paisley, Renfrew*, E.—Fils de coton à coudre.

1258 District de Manchester et Salford.—Environ soixante fabricants anonymes réunis, et représentés par un comité composé du maire de Manchester, du maire de Salford, de l'alderman Sir J. Potter, de MM. Th. Bazley, J.-A. Turner, Alderman Neild, Edm. Potter, W. Fairbairn, W. Entwistle, Th. Ashton, J. Heron, J.-A. Nicholls et Th. Worthington; J.-O. Murray, secrétaire.—Ouates de coton; fils de coton simples ou retors et doublés pour le tissage, la bonneterie, la dentelle, la broderie et la couture. (Voir cl. 10, 21, 25.)

1259 Kerr et Clark, *à Paisley, Renfrew*, E.—Fils de coton simples. Fils de coton glacé pour coudre les chapeaux de paille.

1260 Holdsworth, Thomas, et Cie, *à Manchester*, A.—Cotons filés.

3e Section. *Tissus de coton pur, unis.*

* District de Manchester et Salford.—Calicots unis, écrus et blancs, avec et sans apprêt. Calicots proprement dits pour linge de corps et literie. Toiles pour la teinture et l'impression. Toiles des Indes. Madapolams. Croisés. Coutils. Drills. Toiles à sacs et sacs faits au métier. Castors, peaux-de-taupe, duvets de cygne, cords, satins, jeans, cantoons et autres tissus épais. (Voir cl. 19, s. 2.)

1262 Horrockses, Miller, et Cie, *à Manchester*, A.—Tissus de coton.

1263 Hollins, Edw., *à Preston, Lancastre*, A.—Tissus de coton unis pour chemises et pour draps de lit.

1264 Slaters et Smith, *à Preston, Lancastre*, A.—Tissus de coton unis (*shirtings*), écrus et blanchis.

4e Section. *Tissus de coton pur, façonnés.*

* District de Manchester et Salford.—Tissus pour jupes et doublures façonnés. Damas. Drills et cantoons façonnés. Piqués pour gilets; couvertures et courtes-pointes piquées; piqués pour vêtements et jupons. Cords. Basins. Brillantés et autres tissus façonnés pour vêtements, meubles et literie. (Voir cl. 19, s. 2.)

* Hodges, Wm. et Chas., Ellis et Cie.—Courtes-pointes, &c., brevetées.

5e Section. *Tissus de coton pur, pour usages spéciaux, tirés à poil, etc.*

* District de Manchester et Salford.—Futaines, finettes et autres tissus tirés à poil. (Voir cl. 19, s. 2.)

1265 Kesselmyer et Mellodew.—Velours de coton, breveté.

CLASS XIX.

Cotton Manufactures.

Section 1. *Materials used in the Preparation, Warping, Weaving, Dycing, Printing, and Finishing of Cotton Goods.*

Section 2. *Raw Cotton, prepared and spun.*

1252 Brook, Jonas, and Brothers, *Huddersfield.* Cotton in its various processes of preparation for use 2105

* Carlile, Sons, et Company, *Paisley.* Cotton thread. (See cl. 22.) 2012

1253 Clapperton, W., and Company, *Paisley.* Cotton thread. 2013

1254 Clark, J. and J., and Company, *Seedhill, Paisley.* Cotton thread. 2014

1255 Clarke, John P., *King-street Mills, Leicester.* Sewing cottons. 2015

1256 Clark, J., jun., and Company, *Glasgow.* Cotton sewing thread. 2018

1257 Coats, J. and P., *Paisley.* Cotton thread 2016

1258 Manchester Local Committee, *Manchester.* Cotton goods of all kinds.—Some sixty manufacturers, acting in conjunction, are represented by a Committee composed of the Mayor of Manchester, the Mayor of Salford, Alderman Sir J. Potter, Messrs. Bazley, Turner, Alderman Neild, Edm. Potter, W. Fairbairn, W. Entwistle, T. Ashton, J. Heron, J. A. Nicholls, and T. Worthington; J. O. Murray, secretary. (See cl. 10, 21, 25.) 2108

1259 Kerr and Clark, *Linside, Paisley.* Cotton thread. 2017

1260 Holdsworth, Thomas, and Company, *Manchester.*—Fine cotton yarns. 2108

Section 3. *Pure Cotton Fabrics, plain.*

* Manchester Local Committee. Cotton goods of all kinds. (See cl. 19, s. 2.) 2108

1262 Horrockses, Miller, and Co., *Manchester.* Cotton goods.

1263 Hollins, Edw., *Preston.* Cottons for shirts and sheeting.

1264 Slaters and Smith, *Preston.* Cottons for shirting, bleached and unbleached.

Section 4. *Pure Cotton Fabrics, figured.*

* Manchester Local Committee. Cotton goods of all kinds. (See cl. 19, s. 2.) 2108

* Hodges, Wm. and Chas., Ellis, and Company.—Patent Turkish counterpanes, toilet covers, and towels.

Section 5. *Pure Cotton Fabrics for special purposes, napped, &c.*

* Manchester Local Committee. Fustians, &c. (See cl. 19, s. 2.) 2108

1265 Kesselmyer and Mellodew.—Patent cotton velvets, deep pile.

Palais. P. Palais. P. P. P

6e Section. *Tissus de coton pur, légers.*

1270 Auld, Berrie et Mathieson, *à Glasgow, Lanark*, E.—Mousselines unies et brochées.

1271 Brown, S.-R. et Th., *à Glasgow, Lanark*, E.—Mousselines brochées ou brodées pour robes, jupes, collerettes, etc.

* District de Manchester et Salford. — Jaconas, cambrics, nansoucks, mousselines, tarlatanes, mousselines rayées et brochées, etc. (Voir cl. 19, s. 2.)

1272 Finlayson, Fr., et Cie, *à Glasgow, Lanark*, E.—Mousselines brochées en blanc et en couleur.

1272*a* Gardner et Bazley, *à Manchester*, A.—Mousselines de coton d'Australie filées à Manchester, jusqu'au N° 500, et fabriquées à Dacca (Indes Orientales).

1273 Govan, W., et fils, *à Glasgow, Lanark*, E.—Mousselines brochées en blanc et en couleur.

1274 Holden, J., et Cie, *à Belfast, Antrim*, I.—Mousselines brochées.

1275 Lindsay et Cie, *à Belfast, Antrim*, I.—Mousselines brochées.

1276 Symington, R.-B., et Cie, *à Glasgow, Lanark*, E.—Mousselines brochées pour robes, rideaux, etc.

1277 Yates, Brown, et Howatt, *à Glasgow, Lanark*, E.—Mousselines brochées pour rideaux.

1278 Young, J.-H., et Cie, *à Glasgow, Lanark*, E.—Mousselines brochées pour rideaux. Tulles.

Palais.

7e Section. *Tissus de coton pur, fabriqués avec des fils de couleur.*

1281 Dallas, P., *à Glasgow, Lanark*, E.—Tissus de coton de couleur fabriqués sur métier mécanique.

* District de Manchester et Salford.—Guingamps. Nankins. *Chambrays.* Mouchoirs de poche ou de cou. Tapis de table. Calicots à rayures ou a carreaux. Toiles à matelas. Coutils, drills, *gambroons* et étoffes diverses pour gilets, sarraux et pantalons. Piqués pour gilets, pour la toilette et la literie; basins, etc. (Voir cl. 19, s. 2.)

1282 Fyfe, H., et fils, *à Glasgow, Lanark*, E.—Guingamps.

1283 MacBride et Coy, *à Glasgow, Lanark*, E.—Tissus fabriqués sur métier mécanique.

1284 MacDonald D.-J, et Cie, *à Glasgow, Lanark*, E.—Tissus teints en rouge d'Andrinople.

1285 Sommerville, J., et fils, *à Glasgow, Lanark*, E.—Tissus unis et tissus de couleur fabriqués sur métier mécanique.

Palais.

8e Section. *Tissus de coton pur, imprimés.*

1289 Auld et Buchanan, *à Glasgow, Lanark*, E.—Mousselines imprimées.

1290 Black, J., et Cie.—Mousselines et calicots imprimés. (Voir cl. 21.)

1291 Boyd, Th., *à Glasgow, Lanark*, E.—Mousselines imprimées.

1291*a* Bradshaw, Hammond et Cie, *à Manchester*, A.—Calicots imprimés, pour robes, ameublements, chemises, &c.

1291*b* Butterworth et Brooks, *à Manchester.*—Calicots et mousselines de laine imprimés.

1292 Crum, Walter, et Cie, *à Glasgow, Lanark*, E.—Tissus de coton imprimés.

1293 Dalgleish, Falconer, et Cie, *à Glasgow, Lanark*, E.—Mousselines et cambrics imprimés.

* District de Manchester et Salford.—Calicots et mousselines; piqués, *welts* et *mocks* satins, *jeans*, drills, basias, damas, jaconas, percales et autres tissus teints, glacés, imprimés ou gaufrés. (Voir cl. 19, s. 2.)

1293*a* Lee, Daniel, et Cie, *à Manchester*, A.—Calicots imprimés pour robes et ameublement, et tournais imprimés de laine et de laine et coton pour ameublements.

1293*b* Dewhurst, Samuel, et Cie, *à Manchester.*, A—Calicots imprimés et teints pour parapluies, reliures.

Palais.

Section 6. *Light Cotton Fabrics.*

1270 Auld, Berrie, and Mathieson, *Glasgow.* Plain and fancy muslins. 2059

1271 Brown, S. R. & T., *Glasgow.* Embroideries. 2705

* Manchester Local Committee. Cambrics, muslins, &c. (See cl. 19, s. 2.) 2108

1272 Finlayson, Francis, and Company, *Glasgow.* White and coloured lappets. 2708

1272*a* Gardner and Bazley, *Manchester.*—Muslins from cotton grown in Australia, the yarn spun in Manchester to No. 500, and woven at Dacca, in India.

1273 Govan, William, and Son, *Glasgow.* Coloured lappets. 2709

1274 Holden, John, and Company, *Belfast.* Sewed muslins. 2067

1275 Lindsay and Company, *Belfast.* Sewed muslins. 2069

1276 Symington, R. B., and Company, *Glasgow.* Harness curtains and muslins. 2070

1277 Yates, Brown, and Howatt, *Glasgow.* Harness curtains and muslin. 2071

1278 Young, J. H., and Company, *Glasgow.* Harness curtains and muslin. Tulles. 2072

Palais.

Section 7. *Pure Cotton Fabrics, manufactured with Coloured Threads.*

1281 Dallas, Peter, *Glasgow.* Power loom coloured fabrics. 2085

* Manchester Local Committee. Ginghams; nankeens; chambrays; calicots; linens; ticking; stuffs for pantaloons and waistcoats, &c. (See cl. 19, sec. 2.) 2108

1282 Fyfe, Henry, and Son, *Glasgow.* Ginghams. 2087

1283 MacBride and Coy, *Glasgow.* Power loom fabrics 2088

1284 Macdonald, D. J., and Company, *Glasgow.* Turkey-red goods. 2090

1285 Sommerville, John, and Sons, *Glasgow.* Power loom, coloured and plain fabrics. 2093

Palais.

Section 8. *Pure Cotton Fabrics, printed.*

1289 Auld and Buchanan, *Glasgow.* Printed muslins and fabrics. 2058

1290 Black, James, and Company, *Glasgow.* Printed muslins and cambrics. (See cl. 21.) 2061

1291 Boyd, Thomas, *Glasgow.* Printed muslins and cambrics. 2062

1291*a* Bradshaw, Hammond, and Company, *Manchester.*—Printed cambrics for dress, furniture, aprons, handkerchiefs, neckerchiefs, shirtings, &c. 2108

1291*b* Butterworth and Brooks, *Manchester.*—Printed cambrics and de laines. 2108

1292 Crum, Walter, and Company, *Glasgow.* Printed muslins and cambrics. 2063

1293 Dalgleish, Falconer, and Company, *Glasgow.* Printed muslins and cambrics. 2064

* Manchester Local Committee. Calicots; muslins; satins, &c. (See cl. 19, sec. 2.) 2108

1293*a* Lee, Daniel, and Company, *Manchester.*—Printed cambrics, and printed woollen and wool and cotton tournays for furniture. 2108

1293*b* Dewhurst, Samuel, and Company, *Manchester.*—Printed and dyed cottons for umbrellas, bookbinding, &c. 2108

Palais.

1294 Evans, D., *à Londres*, A.—Tissus imprimés.
1295 Gourlie, William, et fils, *à Glasgow, Lanark*, E.—Mousselines et cambrics imprimés.
1296 Hamel, L., *à Glasgow, Lanark*, E.—Calicots imprimés.
1296*a* Hoyle, Thomas et fils, *à Manchester*, A.—Mousselines et calicots imprimés.
1296*b* McNaughton, Barton et Thom, *à Manchester*, A.—Calicots imprimés.
Palais. 1297 Monteith, John, et Cie, *à Glasgow, Lanark*, E.—Mousselines imprimées. Tissus de coton.
1298 Muir, Brown, et Cie, *à Glasgow, Lanark*, E.—Châles et mouchoirs de calicot imprimé.
1298*a* Ormerod, Wall, et Cie, *à Manchester*, A.—Calicots imprimés.
1298*b* Potter, Edmond et Cie, *à Manchester*, A.—Calicots imprimés.
1299 Reid et Whiteman, *à Glasgow, Lanark*, E.—Mousselines pour robes imprimées.
1300 Sale, John N., *à Manchester*, A.—Calicots imprimés pour chemises.
1301 Simpson et Young, *à Manchester*, A.—Calicots, mousselines, velours de coton et mousselines de laine imprimés.

1294 Evans, D., 208 *Regent-street*. Printed goods. 2111
1295 Gourlie, William, and Son, *Glasgow*. Printed muslins and cambrics. 2065
1296 Hamel, L., *Glasgow*. Printed muslins and cambrics. 2066
1296*a* Hoyle, Thomas, and Sons, *Manchester*.—Printed muslins and cambrics. 2108
1296*b* McNaughton, Barton, and Thom, *Manchester*.—Printed cambrics. 2108
1297 Monteith, John, and Company, *Glasgow*. Printed muslins and fabrics. 2109 Palais.
1298 Muir, Brown, and Company, *Glasgow*. Printed garments. 2052
1298*a* Ormerod, Wall, and Company, *Manchester*.—Printed cambrics. 2108
1298*b* Potter, Edmund, and Company, *Manchester*.—Printed calicoes. 2108
1299 Reid and Whiteman, *Glasgow*. Printed muslins and fabrics. 2110
1300 Sale, John N., *Manchester*.—Printed cambrics for shirtings. 2108
1301 Simpson and Young, *Manchester*.—Printed muslins, cambrics, de laines, and velvets. 2108

9e Section. *Velours de coton.*

P. ✻ District de Manchester et Salford.—Velours teints, imprimés ou gaufrés. (Voir cl. 19, s. 2.)

Section 9. *Cotton Velvet.*

✻ Manchester Local Committee. Velvets dyed, printed, and figured. (See cl. 19, s. 2.) 2108 P.

10e Section. *Tissus de coton mélangé d'autres matières.*

✻ District de Manchester et Salford.—Toiles à matelas de lin et coton. Toiles de ménage de lin et coton. Drills avec mélange de lin et laine. Tissus pour gilets de coton et soie. Robes de coton, laine, lin et soie mélangés. Mousselines-laine unies et imprimées. Peluches de soie et coton. (Voir cl. 19, s. 2.)

P. 1303 Paul, Alex., et Cie, *à Glasgow, Lanark*, E.—Tissus de coton pur, soie et coton, laine peignée et coton, pour vêtements.
1304 Simpson et Young, *à Manchester*, A.—Velours de coton mousselines imprimées et de laines.

Section 10. *Mixed Fabrics.*

✻ Manchester Local Committee. Linen and cotton fabrics for mattressing and household purposes; silk and cotton for waistcoating; mixed cotton, wool, flax, and silk for dresses; silk and cotton plush. (See cl. 19, s. 2.) 2108

1303 Paul, A., and Company, *Glasgow*. Muslins, &c. 2068
1304 Simpson and Young, *Moseley-street, Manchester*. Printed calicoes, cotton velvets, and de laines. 2112 P.

11e Section. *Rubanerie de coton pur ou mélangé.*

P. ✻ District de Manchester et Salford.—Rubans de coton pur et mélangé de soie, laine et lin. (Voir cl. 19, s. 2.)

Section 11. *Cotton Ribbons.*

✻ Manchester Local Committee. Cotton ribbons; silk, wool, and flax mixed. (See cl. 19, s. 2.) 2108 P.

Class 20. Woollen and Worsted.

20e CLASSE.

Industrie des Laines.

CLASS XX.

Woollen and Worsted Manufactures.

1e Section. *Matériel de l'industrie des laines (sauf renvoi aux classes VII. et X).*

Section 1. *Illustrations of the Processes.*

2e Section. *Laines. Poils et Crins bruts (sauf renvoi aux classes II. et III).*

Section 2. *Raw Wool, Hair, and Bristles.*

3e Section. *Laines, Poils et Crins préparés et teints.*

Section 3. *Wool, Hair, and Bristles, prepared and dyed.*

4e Section. *Fils de laine ou de poil; simples ou retors; écrus ou blanchis, teints en laine ou en échées, avec ou sans mélange de coton, de soie, de bourre de soie.*

Section 4. *Woollen Yarn, plain or twisted, bleached or unbleached, dyed in grain or in piece, with or without a mixture of Cotton, Silk, &c.*

P. 1308 Burgess, Alf., et Cie, *à Leicester*, A.—Fils de laine, de poil de chèvre et d'alpaca, pour le tissage, le tricot et la broderie.
A. E. 1309 Jay, G., *à Norwich, Norfolk*, A.—Fil de poil de chèvre.
1310 Lee, George, et fils, *à Wakefield, Yorkshire*, A.—Echantillons de fils de laine.

1308 Burgess, A., and Company, *Bath-lane, Leicester*. Wools of various kinds, and alpaca thread for netting and ornamental work. 2139 P.
1309 Jay, G., *Norwich*. Mohair yarns. 2286 A. E.
1310 Lee, George, and Sons, *Wakefield, Yorkshire*. Samples of worsted yarns.

5e Section. *Tissus de laine cardée, foulés.*

1312 Braithwhaite et Cie, *à Kendal, Westmoreland*, A.—Tissus rayés chaîne fil, trame laine cardée. Tissus de laine cardée unis ou façonnés pour pantalons. Plaids de berger.

1313 Buckton, Joseph, et Cie, *à Leeds, York*, A.—Draps.

Palais.

1314 Bull et Wilson, *à Londres*, A.—Draps, casimirs, et satins. Draps pour paletots et livrées. Draps d'amazone. Draperie de nouveauté pour pantalons. Tissus pour paletots. Tissus pour gilets laine, soie et coton.

1315 Clark, J. et T., *à Trowbridge, Gloucester*, A.—Draps de tout genre.

1316 Cooper, D. et J., *à Leeds, York*, A.—Draps.

A. E. 1317 Croggon, et Cie, *à Londres*, A.—Feutres préparés pour les toits, les parquets, les ponts de navire, etc.

1319 Fox, J.-J., et Cie, *à Devizes, Wilts*, A.—Draps faits de laine de Southdown.

1320 Gill et Bishop, *à Leeds, York*, A.—Draps et autres tissus de laine cardée foulés.

1321 Gott, B., et fils, *à Leeds, York*, A.—Draps et autres tissus de laine foulés.

1322 Hagues, Cook, et Wormald, *à Dewsbury, près Leeds, York*, A.—Draps.

1323 Hargreaves et Hussey's, *à Leeds, York*, A.—Draps superfins et draps de nouveauté.

1324 Hudson et Bousfield, *à Leeds, York*, A.—Draps. Tissus de laine cardée pure ou mélangée de coton.

Palais.

1325 Irwin, E., *à Leeds, York*, A.—Draps.

1328 Lupton, W., et Cie, *à Leeds, York*, A.—Draps. Draps de nouveauté.

1330 Pauson fils et Martin, *à Leeds, York*, A.—Draps.

1331 Smith, W., et fils, *à Leeds, York*, A.—Draps.

1333 Stancomb, J., et fils, *à Trowbridge, Glocester*, A.—Draperie de nouveauté pour pantalons.

1334 Stancomb, W. et J., *à Trowbridge, Glocester*, A.—Draperie de nouveauté façonnée pour pantalons.

1335 Tolson, James, et fils, *à Huddersfield, York*, A.—Draps.

1336 Walker, J., et Cie, *à Leeds, York*, A.—Draps de billard faits de laine d'Australie.

1337 Weir, J., et Cie, *à Londres*, A.—Feutres pour couvrir les fonds des navires, les toits de maisons, etc.

1338 Wrigley, J. et T.-C., et Cie, *à Huddersfield, York*, A.—Draperie de nouveauté pour pantalons. Draps unis et façonnés. Tissus pour robes de laine cardée et soie.

Section 5. *Fabrics of Carded Wool, milled.*

1312 Braithwaite and Company, *Kendal.* Linseys, fancy trowsrings, &c. 2165

1313 Buckton, Joseph, and Company, *Leeds.* Woollen cloths. 2166

Palais.

1314 Bull and Wilson, 52 *St. Martin's-lane, London.* West of England cloths. 2167

1315 Clark, J. and T., *Trowbridge.* Woollen cloth and fancy woollens. 2168

1316 Cooper, D. and J., *Leeds.* Woollen cloths. 2170

1317 Croggon and Company, 2 *Dowgate-hill, London.* Patent felt. 2284 A. E.

1319 Fox, John J., and Company, *St. John-street, Devizes.* Woollen cloth manufactured from South Down wool. 2180

1320 Gill and Bishop, *Leeds.* Woollen cloths. 2181

1321 Gott, B., and Son, *Leeds.* Woollen goods.

1322 Hagues, Cook, and Wormald, *Dewsbury, near Leeds.* Woollen cloths. 2182

1323 Hargreaves and Hussey, *Leeds.* Woollen cloths. 2183

1324 Hudson and Bousfield, *Leeds.* Woollen and mixed cloths. 2184

1325 Irwin, E., *Leeds.* Woollen cloths. 2186

1328 Lupton, W., and Co., *Leeds.* Woollen cloths. 2190

Palais.

1330 Pauson, Son, and Martin, *Leeds.* Woollen cloths. 2195

1331 Smith, W., and Sons, *Leeds.* Woollen cloths. 2198

1333 Stancomb, John, and Son, *Trowbridge.* Fancy woollens. 2200

1334 Stancomb, W. and J., *Trowbridge.* Fancy woollens 2201

1335 Tolson, James, and Sons, *Huddersfield.* Woollen goods. 2203

1336 Walker, J., and Co., *Leeds.* Billiard cloths made of Australian wool. 2246

1337 Weir, J., and Company, 19 *Bucklersbury, London.* Felt for covering the bottom of ships and the roofs of houses, damp walls, steam boilers, &c. 2204

1338 Wrigley, J. and T. C., and Company, *Huddersfield.* Woollen goods. Mixed woollen and silk fabrics. 2205

6e Section. *Tissus de laine cardée, non foulés ou légèrement foulés.*

1344 Early, J., et Cie. *à Witney, Oxford*, A.—Couvertures dites *de Witney.*

1345 Salter et Cie, *à Trowbridge, Glocester*, A.—Tissus de laine cardée façonnés.

1346 Stow freres, *à Leeds, York*, A.—Draps. Tissus de laine cardée. Couverture de laine.

Palais.

1347 Wilson, J. et W., *à Kendal, Westmoreland*, A.—Tapis de pied pour wagons. Couvertures de laine pour chevaux.

1348 Wall et Fils, *à Welshpool, Montgomery*, A.—Flanelles de Galles.

1349 Grundy, John et Edmund, *à Manchester.*—Flanelles blanches, de couleur, et imprimées.

1350 Kelsall et Bartlemore, *à Rochdale, Lancastre*, A—Flanelles.

Section 6. *Carded-wool Fabrics, not milled, or only slightly milled.*

1344 Early, John, and Company, *Witney.* Witney blankets. 2216

1345 Salter and Company, *Trowbridge.* Fancy woollens. 2197

1346 Stow, Brothers, *Leeds.* Woollen cloths. 2202

1347 Wilson, J. and W., *Castle Mills, Kendal.* Railway rugs, horse-sheeting, &c. 2217

Palais.

1348 Wall and Sons, *Broad-street, Welchpool.* Royal Welch flannels. 2245

1349 Grundy, John & Edmund, *Manchester.* Flannels; white and dyed flannels; printed ditto, &c. 2218

1350 Kelsall and Bartlemore, *Rochdale.* Flannels. 2241

7e Section. *Tissus de laine peigné.*

Section 7. *Combed-wool Fabrics.*

8e Section. *Tissus de laine peignée ou cardée avec mélange de coton ou de fil.*

1351 Akroyd, J., et fils, *à Halifax, York*, A.—Damas de laine pure, de laine et soie, de laine et coton. Tissus pour robes de laine peignée et de laine cardée. Fils de laine.

1352 Behrens, J., *à Bradford, York*, A.—Tissus pour robes et meubles, faits de pure laine peignée et de laine peignée et coton.

1354 Clay, J.-Tr., *à Huddersfield, York*, A.—Tissus pour gilets laine et coton. Tissus pour pantalons de pure laine et de laine et coton.

1354*a* Craven et Harrop, *à Bradford, York*, A.—Damas, etc.

1355 Cook fils et Cie, *à Londres*, A.—Tissus de laine et coton.

1356 Hinshaw, W., et Cie, *à Glasgow, Lanark*, E.—Tissus de laine façonnés pour vêtements.

1356*a* Howitt, G. et fils, *à Bradford, York*, A.—Tissus de laine.

1358 Kershaw, S. et H., *à Bradford, Wilts*, A.—Orléans chaîne coton, trame laine peignée.

1359 Laird et Thomson, *à Glasgow, Lanark*, E.—Tissus de laine mélangée pour vêtements (wolseys).

1360 MacMillan, J., et Cie, *à Glasgow, Lanark*, E.—Tissus pour robes faits de laine peignée ou cardée, avec mélange de soie et coton.

1361 Paul, A., et Cie, *à Darlington, Durham*, A.—Tissus de laine façonnés pour vêtements.

1362 Pease, H., et Cie, *à Darlington, Durham*, A.—Tissus de laine peignée mélangée. Fils de laine peignée.

1363 Scales et Herbert, *à Londres*, A.—Serviettes et gilets dits *électriques*, chaîne fil, trame laine peignée. (Voir cl. 22.)

1364 Yates et Nightingale, *à Londres*.—Draps pour couvrir les tables.

P. G. 1365 Craven et Harrop, *à Bradford*, A.—Fabricants de damas de laine et coton.

Section 8. *Combed or Carded-wool Fabrics, mixed, with Cotton.*

1351 Akroyd, James, and Son, *Halifax*. Damasks of pure wool; of wool and silk, and of wool and cotton. 2257

1352 Behrens, Jacob, *Bradford*. Worsted stuff goods. Fabrics of mixed wool and cotton 2162

1354 Clay, Joseph Travis. *Huddersfield*. Woollen goods and mixed fabrics. 2169

1354*a* Craven et Harrop, *Bradford, Yorkshire*. Damasks, &c.

1355 Cook, Son, and Company, *St. Paul's Church-yard, London*. Mixed fabrics. 2248

1356 Hinshaw, W., and Company, *Glasgow*. Fancy dress fabrics. 2240

1356*a* Howitt, G. and Son, 2 *Union-street, Bradford*. Worsted stuff goods. 2249

1358 Kershaw, S. and H., *Laister Dyke, Bradford*. Orleans. 2242

1359 Laird and Thomson, *Glasgow*. Fancy dresses. 2239

1360 M'Millan, J., and Company, *Glasgow*. Fancy dress fabrics. 2243

1361 Paul, A., and Company, *Glasgow*. Fancy dress fabrics. 2244

1362 Pease, H., and Company, *Railway Mills, Darlington*. Worsted yarns and worsted stuff goods. 2196

1363 Scales and Herbert, *London*. Electric waistcoatings, &c. (See cl. 22.) 2263

1364 Yates and Nightingale, *London*. Cloth table-covers, &c. 2273

1365 Craven and Harrop, *Bradford*. Damasks of pure wool, and wool and cotton. P. G.

9e Section. *Tissus de laine peignée ou cardée avec mélange de soie, bourre de soie, coton, etc.*

P. G. 1366 Atkinson, R., et Cie, *à Dublin*, I.—Popelines d'Irlande chaîne soie, trame laine, unies, moirées, rayées, façonnées, avec mélanges de soie et d'or.

1367 Bottomley junior, M., et Cie, *à Bradford, York*, A.—Tissus de laine peignée, soie et coton, unis et façonnés. P.

1368 Day, J., et fils, *à Huddersfield, York*, A.—Cachemirettes chaîne soie et mérinos chaîne coton, trame laine peignée.

P. G. 1369 Fry, W., et Cie, *à Dublin*, I.—Popelines, *tabinets* et tissus pour meubles.

P. & P. G. 1371 MacCrea, H.-Ch., et Cie, *à Halifax, York*, A.—Damas; *ponchos; xergas; ehiripas;* tapis de table faits de laine peignée ou cardée, avec mélange de soie et coton.

1372 Milligan, W., et fils, *à Bingley, York*, A.—Tissus pour robes de laine peignée, de poil de chèvre ou d'alpaca, pur ou mélangé de soie et de coton.

1373 Milligan, Forbes, et Cie, *à Bradford, York*, A.—Tissus pour robes et vêtements d'enfant, de laine peignée, de poil de chèvre ou d'alpaca pur ou mélangé de soie et de coton.

1374 Murley, W. et C., *à Londres*, A.—Tissus pour gilets.

P. G. 1375 Pim freres et Cie, *à Dublin*, I.—Popelines d'Irlande, chaîne soie, trame laine, unies, moirées, écossaises, façonnées, etc.

Section 9. *Combed or Carded Wool, mixed with Silk, Floss Silk, Cotton, &c.*

1366 Atkinson, R., and Company, 31 *College-green, Dublin*. Irish poplins and tabinets. 2258 P. G.

1367 Bottomley, Moses, jun., and Company, *Bradford*. Worsted, silk, and cotton stuff goods. 2164 P.

1368 Day, John, and Sons, *Huddersfield*. Woollen goods. Cashmirettes, silk and merino. 2178

1369 Fry, W., and Company, 31 *Westmoreland-street, Dublin*. Poplins and tabinets. 2260 P. G.

1371 McCrea, Henry Charles, and Company, *Lumbrook Mills, Halifax*. Damasks, table covers, ponchos, cheripas, &c. 2261 P. & P. G.

1372 Milligan, Walter, and Son, *Harden Mills, Bingley*. Worsted stuff goods, silk, cotton, and alpaca. 2192

1373 Milligan, Forbes, and Company, *Bradford*. Worsted stuff goods. Alpacas. Silk and cotton fabrics. 2193

1374 Murley, W. and C., 4 *Bow Church-yard, London*. Fancy waistcoatings. 2264

1375 Pim, Brothers, and Company, *William-street, Dublin*. Poplins and tabinets. 2262 P. G.

10e Section. *Tissus de laine peignée ou cardée, pure ou mélangée, imprimés.*

Section 10. *Combed or carded, pure or mixed Wool Fabrics, printed.*

11e Section. *Tissus de poil pur ou mélangé.*

Palais.

1378 Ellis, Everington et Cie, *à Londres*, A.—Tissus mélangés.

1379 Salt, Titus, fils et Cie, *à Bradford, York*, A.—Tissus faits d'alpaca, de poil de chèvre, de laine anglaise et d'autres laines. Fils servant à cette fabrication.

1380 Townend freres, *Bingley, York*, A.—Tissus faits d'alpaca, de fils de Heald, de poil de chèvre, etc.

1380*a* Sugden, Jonas, et freres, *à Keighley, Bradford*, A.—Fils de Heald et Genappe.

12e Section. *Châles de laine.*

P. 1381 Bliss, W., *à Chipping-Norton, Oxford*, A.—Tissus de laine cardée pour robes, vêtements, tapis, châles, etc. Tweeds et couvertures.

1382 Brown, J. et H., et Cie, *à Selkirk*, E.—Tweeds.

P. G. 1384 Clabburn fils et Crisp, *à Norwich, Norfolk*, A.—Châles, écharpes. Tissus de laine mélangée.

1386 Crombie, J. et J., *à Aberdeen*, E.—Tweeds.

P. 1387 Cross, W., *à Glasgow, Lanark*, E.—Châles de laine; châles de cachemire. Tissus de laine et tissus de cachemir pour robes.

1388 Dicksons et Laings, *à Hawick, Roxburgh*, E.—Bonneterie faite de laine d'agneau d'Ecosse. Châles de laine. Tweeds, plaids de voyage.

P. G. 1390 Forbes et Hutchison, *à Paisley, Renfrew*, E.—Châles.

P. 1393 Johnstone, J., *à Elgin*, E.—Tweeds, plaids.

P. G. 1394 Kerr et Scott, *à Londres*, A.—Châles et tartans.

P. 1397 Locke, J., *à Londres*, A.—Châles de clan et tweeds écossais.

1398 Macfarlane, D., et Cie, *à Glasgow, Lanark*, E.—Tweeds écossais.

P. 1399 Morgan, John, et Cie, *à Paisley, Renfrew*, E.—Châles de soie et laine. Châles tartans de laine pure.

1401 Salomons, B., et fils, *à Londres*, A.—Châles.

1404 Strang, Brown et Cie, *à Glasgow*, E.—Châles imprimés.

P. 1410 Wilson et Armstrong, *à Hawick, Roxburgh*, E.—Tweeds et plaids.

1411 Wingate fils et Cie, *à Glasgow, Lanark*, E.—Châles.

13e Section. *Châles de cachemire.*

14e Section. *Tissus de crin.*

P. 1416 Webb, Ed., *à Worcester*, A.—Damas de crin teints.

Section 11. *Hair Fabrics, pure or mixed.*

1378 Ellis, Everington, and Co., *St. Paul's Churchyard, London.* Mixed fabrics.

1379 Salt, Titus, Sons, and Company, *Saltaire, Bradford.* Goods manufactured from alpaca, mohair, English and other wools, with yarns of the same. 2285 Palais.

1380 Townend, Brothers, *Cullingworth Mills, Bingley, Yorkshire.* Alpaca, mohair, Heald yarn, worsted, &c.

1380*a* Sugden, Jonas, and Brothers, *Keighley.* Heald and Genappe yarns.

Section 12. *Woollen Shawls.*

1381 Bliss, William, *New-street, Chipping Norton, Oxfordshire.* Fancy woollens. Tweeds and Blankets. 2163 P.

1382 Brown, J. and H., and Co, *Selkirk.* Tweeds. 2299

1384 Clabburn, Sons, and Crisp, *Pitt-street, Norwich.* Shawls, scarfs, and mixed fabrics. 2301 P. G.

1386 Crombie, J. and J., *Cothal Mills, Aberdeen.* Tweeds. 2303

1387 Cross, William, *Glasgow.* Woollen and cashmere shawls. 2304 P.

1388 Dicksons and Laings, *Hawick.* Tweeds, plaids and shawls. Scotch lamb's wool hosiery. 2305

1390 Forbes and Hutchison, 5 *Forbes-place, Paisley.* Shawls. 2307 P. G.

1393 Johnstone, James, *Elgin.* Tweeds and plaids. 2310 P.

1394 Kerr and Scott, *West Cannon-street, London.* Shawls and tartans. 2311 P. G.

1397 Locke, James, 119 *Regent-street, London.* Shawls and plaids. 2134

1398 Macfarlane, D., and Company, *Glasgow.* Tweeds, &c. 2298 P.

1399 Morgan and Company, *Paisley.* Shawls of silk and wool. Tartans of pure wool. 2316

1401 Salomons, B., and Sons, *Old Change, Cheapside, London.* Shawls. 2329 P. G.

1404 Strang, Brown, and Company, *Glasgow.* Printed shawls. 2321

1410 Wilson and Armstrong, *Hawick.* Tweeds and plaids. 2327 P.

1411 Wingate, Son, & Company, *Glasgow.* Shawls. 2328

Section 13. *Cashmere Shawls.*

Section 14. *Horsehair Fabrics.*

1416 Webb, E., *Copenhagen-street, Worcester.* Coloured damask and hair cloth. 2349 P.

21e CLASSE.

Industrie des Soies.

1e Section. *Matériel de l'industrie de la soie (sauf renvoi aux classes VII et X).*

2e Section. *Soies brutes et ouvrées.*

P. G. 1419 Allen et Holmes, *à Derby*, A.—Rubans, lacets et cordons de soie. Soies à coudre et cordonnets. Soies prêtes à être mélangées à l'alpaca, la laine, le coton.

1420 Wright, S.-J., et Cie, *à Derby*, A.—Soies moulinées.

CLASS XXI. Class 21. Silk.

Silk Manufactures.

Section 1. *Preparation of the Silk.*

Section 2. *Raw and Thrown Silk.*

1419 Allen and Holmes, *Derby.* Black sarsenet ribbons, thrown silks, coloured silks, &c. Silk prepared for mixture with wool, cotton, or alpaca. 2478 P. G.

1420 Wright, S. J., and Co., *Derby.* Thrown silks. 2375

3e Section. *Tissus de soie pure, unis.*

Palais gallery.

1422 Courtauld, S., et Cie, *à Londres*, A.—Crêpes et aérophanes; gazes de soie. Velours et satins de soie.

1423 Grout et Cie, *à Londres*, A.—Crêpe; erêpe lisse; gaze lisse; gaze aérophane.

1424 Welch et Margetson, *Cheapside, à Londres*, A.—Soieries unies et brochées, velours, moires.

1425 Le Mare, J., et fils, *à Londres*, A.—Satins, velours et autres tissus de soie unis et façonnés.

Section 3. *Plain Fabrics of pure Silk.*

Palais gallery.

1422 Courtauld, Samuel, and Company, 1 *Carey-lane, City, London.* Crapes, velvets, silks. 2421

1423 Grout and Company, *Forster-lane, London.* Crape and gauzes. 2388

1424 Welch and Margetson, *Cheapside, London.* Silks and velvets. 2422

1425 Le Mare, Joshua, and Son, 27 *Spital-square, London.* Satins, velvets and silks. 2424

4e Section. *Tissus de soie pure, façonnés, brochés et à dispositions.*

Palais gallery.

1428 Clarke, Jane, *à Londres*, A.—Moire antique de soie.

1429 Campbell, Harrison, et Lloyd, *à Londres*, A.—Tissus de soie pour robes et modes.

1430 Chadwick, J., 12 *Mosley-street, à Manchester, Lancastre.*—Soieries.

1431 Chapoton, P., *à Coventry, Warwick*, A.—Soieries.

1432 Critchley, Brinsley et Cie, *à Londres*, A.—Soieries.

1433 Foot, J., et fils, *à Londres*, A.—Soieries.

1434 Kemp, Stone et Cie, *à Londres*, A.—Moire antique et soieries façonnées.

1436 Soper, H., *à Londres*, A.—Tissus de soie pour parapluies.

1437 Vanner, J., et fils, *à Londres*, A.—Tissus de soie pour parapluies et ombrelles. Tissus de soie pure ou mélangée de coton pour parapluies et ombrelles. Satins pour gilets.

1437*a* Thompson et Cie, *à Lancaster*, A.—Soieries.

1438 Wardle et Cie, *à Londres*, A.—Soieries.

1439 Willson, Casey et Cie, *à Londres*, A.—Soieries.

1440 Washington et Davis, *à Londres*, A.—Soieries.

1441 Harrop, Taylor et Cie, *à Manchester.*—Soieries.

P. G. **1442** Winkworth et Proctors, *à Manchester.* Soieries.

Section 4. *Fabrics of pure Silk, figured, brocaded, or with pattern.*

Palais gallery.

1428 Clarke, Jane, *Regent-street, London.* Moire antique silk. 2411

1429 Campbell, Harrison, and Lloyd, 19 *Friday-street, London.* Silks. 2401

1430 Chadwick, John, 12 *Mosley-street, Manchester.* Silk. 2412

1431 Chapoton, P., *Mill Houses, Dog-lane, Coventry.* Silk. 2402

1432 Critchley, Brinsley, and Company, *Macclesfield, and* 121 *Cheapside, London*, Silks. 2414

1433 Foot, J., and Sons, *Spital-sq., London.* Silks. 2403

1434 Kemp, Stone, and Company, 35 *Spital-square, London.* Moire antique and Fancy Silks. 2404

1436 Soper, Henry, 32 *Spital-square, London.* Umbrella-silk. 2407

1437 Vanner, John, and Sons, 15 *Spital-square, London.* Silk goods and cotton for umbrellas. Satins for waistcoating. 2408

1437*a* Thompson and Co., *Lancaster.* Silks.

1438 Wardle and Company, *Macclesfield and Cheapside, London.* Silks. 2413

1439 Willson, Casey, and Company, 13 *Spital-square, London.* Silk goods. 2410

1440 Washington and Davis, *London.* Silk goods. 2409

1441 Harrop, Taylor, and Company, *Manchester.* Silks. 2406

1442 Winkworth et Proctors, *Manchester.* Silk. P. G.

5e Section. *Velours et pelueches.*

P. G. **1444** Brooks, Th., *à Londres*, A.—Velours unis et velours façonnés.

P. ✻ District de Manchester et Salford.—Soieries pour robes, gilets, etc. (Voir cl. 19, s. 2.)

P. G. **1445** Kempe, Th., *à Londres*, H.—Velours et soieries.

1446 Taylor, J., et Cie, *à Rochdale, Lancastre*, A.—Pelueches. Soies filées.

Section 5. *Velvet and Plush.*

1444 Brooks, Thomas, 26 *Spital-square, London.* Velvets and fancy plushes. 2400 P. G.

P. ✻ Manchester Local Committee. Silks for dresses and waistcoats. (See cl. 19, s. 2.)

1445 Kempe, Thomas, 20 *Spital-square, London.* Velvets and silks. 2423

1446 Taylor, J., and Company, *St. James-street, Rochdale.* Plushes and spun silk. 2425 P. G.

6e Section. *Tissus pour meubles, tentures et ornements d'église, etc.*

P. G. **1448** Caley freres, *à Windsor, Berks*, A.—Soieries.

1450 Keith et Cie, *à Londres*, A.—Damas pure soie, damas soie et laine peignée; broeatelles; velours et autres soieries unies, rayées ou façonnées pour meubles, tentures et voitures.

Section 6. *Fabrics for Furniture, Hangings, and Church Decoration.*

1448 Caley Brothers, *High-street, Windsor.* Silk manufactures. 2433

1450 Keith and Company, 124 *Wood-street, London.* Furniture silks, damasks, velvets, &c. 2437 P. G.

7e Section. *Tissus de soie mélangée d'or, d'argent, de coton, de laine, de lin, de fantaisie, où la soie domine.*

Section 7. *Fancy Silk Fabrics, mixed with gold, silver, cotton, wool, flax, in which Silk is the principal material.*

8e Section. *Tissus de soie pure ou mélangée, imprimés ou chinés.*

1452 Baker, Tuckers et Cie, fabricants et imprimeurs, *à Londres*, A.—Foulards d'Angleterre et foulards de l'Inde (*eorahs*) imprimés.

P. Black, J., et Cie, *à Glasgow, Lanark.*—Tissus de soie et laine imprimés. (Voir cl. 19.)

1453 Walford, Fairer et Harrison, fabricants et imprimeurs, *à Londres*, A.—Soieries imprimées.

9e Section. *Tissus de bourre de soie pure ou mélangée.*

10e Section. *Rubans de soie.*

1456 Bridgett, Th., et Cie, *à Derby*, A.—Rubans de soie.

P. G.

1457 Cornell, Lyell et Webster, *à Londres*, A.—Rubans et soieries.

G. & M. * Hart, J., *à Coventry*, A.—Rubans de soir. (Voir cl. 7.)

Section 8. *Silk Fabrics, pure or mixed, printed or dyed (with a pattern).*

1452 Baker, Tuckers, and Company, 30 *Gresham-street, London.* Printed silk handkerchiefs. 2386

Black, John, and Company, *Glasgow.* Printed handkerchiefs. 2084 P.

1453 Walford, Fairer, and Harrison, 27 *Lawrence-lane, London.* Silk handkerchiefs. 2389

Section 9. *Fabrics made of pure or mixed Floss Silk.*

Section 10. *Silk Ribbons.*

1456 Bridgett, Thomas, and Company, *Derby.* Silk manufactures. 2387

1457 Cornell, Lyell, and Webster, *St. Paul's Churchyard, London.* Ribbons and silks. 2479 P. G.

* Hart, J., *Coventry.* Ribbons. (See cl. 7.) 2480 P. G. & A. M.

22e CLASSE.

Industrie des Lins et des Chanvres.

Class 22. Flax and Hemp.

1e Section. *Matériel de l'industrie des Lins et des Chanvre (sauf renvoi aux classes VII et X).*

2e Section. *Lins, Chanvres et autres Filaments végétaux bruts (sauf renvoi aux classes II et III).*

3e Section. *Lins, Chanvres, etc., préparés.*

P. 1460 Royal Flax Society, *à Belfast, Antrim*, I.—Lins.

4e Section. *Fils de lin, de chanvre et d'autres filaments.*

1462 Berrie, Alexander, *à Dundée, Forfar*, E.—Fils de lin et de chanvre retors.

1463 Cargill et Cie, *à Dundée, Forfar*, E.—Fils de lin, d'étoupe de lin et de jute, blanchis et préparés.

1464 Carlile, J., fils et Cie, *à Paisley, Renfrew.* E.—Fils de lin. (Voir cl. 19.)

1465 Charters, John, et Cie, *à Belfast, Antrim*, I.—Fils de lin.

1466 Dagnall et Tilbury, *à Londres*, A.—Fils de lin retors. (Voir cl. 24.)

1467 Dargan, W., et Cie, *à Dublin*, I.—Fils de lin de diverses couleurs.

1468 Ewart, William et fils, *à Belfast, Antrim*, I.—Fils de lin.

Palais.

1468*a* Halket et Adams, *à Dundée*, E.—Cordes.

1468*b* Hayes, F. W., et Cie, *à Bainbridge*, I.—Fils de lin.

1470 Herdman, J.-J., et Cie, *à Belfast, Antrim*, I.—Fils de lin.

1471 Low, Alexander, *à Dundée, Forfar*, E.—Fils retors de lin et d'etoupe de lin. Fils de lin, de chanvre et de jute. Filets de pêche de lin et de chanvre retors. Filets de pêche, de jardin et de fantaisie. Toiles de Hesse ; courtes-pointes.

1472 Norrie, Charles, et fils, *à Dundée, Forfar*, E.—Lins d'Ecosse ; filaments de *rhea* et de jute de l'Inde. Fils de lin et d'étoupe de lin, de rhea et de jute.

1473 Patterson, J.-M, *à Bow, Middlesex*, A.—Cordes, ficelles.

1474 Robertson, J., *à Londres*, A.—Cordes.

CLASS XXII.

Flax and Hemp Manufactures.

Section 1. *Preparation of Flax and Hemp.*

Section 2. *Raw Flax, Hemp, and other Vegetable Fibres.*

Section 3. *Prepared Flax and Hemp, &c.*

1460 Royal Flax Society, *Belfast.* Flax. 2491 P.

Section 4. *Thread from Flax, Hemp, and other Fibres.*

1462 Berrie, Alex. *Dundee.* Twine and hessians. 2492

1463 Cargill and Company, *Dundee.* Bleached flax and tow yarns. 2510

1464 Carlile, Sons, and Company, *Paisley.* Cotton thread. (See cl. 19.) 2012

1465 Charters, John, and Company, *Belfast.* Linen yarns. 2491*e*

1466 Dagnall and Tilbury, *Little Chelsea, London.* Twines, mats, &c. (See cl. 24.) 2493

1467 Dargan, W., and Company, *Chapelizod Mills, Dublin.* Linen threads of various colours. 2494

1468 Ewart, Wm., and Son, *Belfast.* Linen yarns. 2491*f*

Palais.

1468*a* Halket and Adams, *Dundee, Scotland.* Ropes and twine.

1468*b* Hayes, F. W., and Co., *Bainbridge, Ireland.* Linen thread.

1470 Herdman, J. J., and Company, *Belfast.* Linen yarns. 2491*g*

1471 Low, Alexander, *Dundee.* Saekings, hessians, yarns, and nets. 2495

1472 Norrie, Charles, and Sons, *Dundee.* Bleached flax and tow yarns. 2523

1473 Patterson, J. M., *Fairfield-road, Old Ford, Bow, Middlesex.* Rope, twine, &c. 2524

1474 Robertson, J., *London.* Twine and ropes.

Flax and Hemp.

P. G. **1475** Ullathorne et Cie, *à Londres*, A.—Fils à l'usage des cordonniers et des selliers.

P. **1476** Wolfhill Spinning Company, *à Belfast, Antrim*, I. —Toiles de lin.

5e Section. *Toiles à voiles et grosses Toiles de lin et de chanvre.*

1481 Bell, Thomas, *à Dundée, Forfar*, E.—Toiles de parquet. Canevas de toile cirée. Toiles de décors.

* Les Commissaires royaux pour l'Exposition universelle de 1851, *à Londres*, A.—Toiles à voiles; filets, etc. (Voir cl. 14.)

1482 Corsar freres, *à Arbroath, Forfar*, E.—Toiles à voiles de fil de fer et de fil d'étoupe de lin.

1483 Cox freres, *à Dundée, Forfar*, E.—Toiles de tout genre faites à la mécanique: toiles pour voiles, tentes, matelas, draps de lit, tapis, vêtements, ménage, etc.

1484 Duncan, D., et Cie, *à Arbroath, Forfar*, E.—Fils de lin. Toiles à voiles. Toiles pour draps et ménage.

1485 Esplin, J.-S., *à Arbroath, Forfar*, E.—Toile à voiles de fil de lin d'Irlande.

Palais. **1486** Fraser, D., *à Arbroath, Forfar*, E.—Toile à voiles de fil de lin.

1487 Lowson, A., *à Arbroath, Forfar*, E.—Lin brut; lin cardé; fils de lin; toiles à voile.

1488 Lumgair, B., et fils, *à Arbroath, Forfar*, E.—Toiles à voiles, prélarts et toiles d'emballage. Fils de lin retors.

1489 Mann, A., *à Arbroath, Forfar*, E.—Fils et tissus de lin et d'étoupe de lin. Tissus faits d'étoupes de lin et de chanvre. Fils de lin retors pour la marine.

1490 Samson, Hugh, et fils, *à Dundée, Forfar*, E.—Toiles pour draps de lit, matelas, emballages, etc., faites de lin d'étoupe de jute.

1491 Smieton, James, et fils, *à Dundée, Forfar*, E.—Toiles pour literie, toilette et ménage; toiles à voile.

1492 Webster, F. et W., *à Arbroath, Forfar*, E.—Cordages, cordes et ficelles. Toiles à voiles.

6e Section. *Toiles fines et coutils.*

1496 Anderson, C., *à Arbroath, Forfar*, E.—Toiles de lin.

1497 Andrews, Michael, *à Belfast, Antrim*, I.—Toiles de lin.

1498 Baxter freres et Cie, *à Dundée, Forfar*, E.—Fils de lin. Toiles de lin blanchies et non blanchies.

1499 Don freres et Cie, *à Dundée, Forfar*, E.—Fils de lin; toiles pour literie, ménage et toilette. Toiles d'Osnabruck.

1500 Edward, A. et D., et Cie, *à Dundée, Forfar*, E.—Fils de lin. Tissus de lin faits à la mécanique et à la main.

Palais. **1503** Hattersley et Parkinson, *à Barnsley, York*, A.—Toiles pour linge de corps et de ménage.

1504 Hind, J., et fils, *à Belfast, Antrim*, I.—Fils de lin. Toiles de lin.

1506 Jaffe freres, *à Dundée, Forfar*, E.—Toiles de lin pour draps de lit, toilette, table et ménage. Toiles ouvrées. Toiles à voiles.

1507 Johnston et Carlisle, *à Belfast, Antrim*, I.—Fils de lin et d'étoupe de lin. Tissus de lin écru blanchi pour chemises.

1508 Laing et Ewan, *à Dundée, Forfar*, E.—Toiles de lin pour draps de lit, table et ménage. Toiles ouvrées. Coutils. Toiles à voiles.

1511 Richardson, T.-C., *à Lurgan, Armagh*, I.—Toiles de lin. Fils de lin.

1512 Scales et Herbert, *à Newark, Nottingham*, A.—Toiles de lin pour chemises. Toiles de ménage. (Voir cl. 20.)

1475 Ullathorne and Company, 12 *Gate-street, Lincoln's-inn-fields, London.* Shoemakers' and saddlers' thread. 2496 P. G.

1476 Wolfhill Spinning Company, *Belfast.* Linen yarns. 2491*l* P.

Section 5. *Sail-cloth, and other Coarse Flaxen and Hempen Cloths.*

1481 Bell, Thomas, *Dundee.* Floor-cloth canvas, sackings, &c. 2509

* Royal Commissioners for the Exhibition of 1851, *London.* Canvas, nets, &c. (See cl. 14.) 2528

1482 Corsar Brothers, *Applegate Works, Arbroath.* Sailcloth. 2511

1483 Cox Brothers, *Dundee.* Ducks, ticks, hessians, sheetings, and hemp carpets. 2512

1484 Duncan, D., and Company, *Arbroath.* Sailcloth, linens, yarns. 2514

1485 Esplin, J. S., *Chalmers-street, Arbroath.* Sail canvas. 2516

1486 Fraser, D., *Arbroath.* Sail canvas, tarpauling, and linen fabrics. 2517 Palais.

1487 Lowson, A., *Green's Factory, Arbroath.* Canvas and twines. 2520

1488 Lumgair, D., and Son, *Millgate, Arbroath.* Canvas, tarpauling, &c. 2521

1489 Mann, A., *Hill-street, Arbroath.* Canvas goods, &c. 2522

1490 Samson, Hugh, and Son, *Dundee.* Canvas, brown and bleached, for sheets and ticking 2525

1491 Smieton, James, and Son, *Dundee.* Sheetings, dowlas, and ducks, browned, creamed, and bleached. 2526

1492 Webster, F. and W., *Gowan-street, Arbroath.* Sailcloth, ropes, twines. 2527

Section 6. *Fine Cloths and Ticking.*

1493 Anderson, C., *Arbroath.* Linens & sailcloth. 2507

1497 Andrews, Michael, *Belfast.* Linen fabrics. 2560

1498 Baxter, Brothers, and Company, *Dundee.* Canvas, sheeting, osnaburgs, dowlas, &c., brown and bleached, and a variety of yarns, grey and bleached. 2508

1499 Don Brothers and Company, *Dundee.* Sheetings, Osnaburgs, and linen yarns. 2513

1500 Edward, A. and D., and Company, *Dundee.* Assortment of linens and samples of linen yarns. 2515

1503 Hattersley and Parkinson, *St. Mary's-gate, Barnsley, Yorkshire.* Family linens. 2573 Palais.

1504 Hind, John, and Sons, *Belfast.* Linen yarns and fabrics. 2491*h*

1506 Jaffé Brothers, *Dundee.* Sheetings, dowlas, diaper, ducks, drills, brown and bleached. 2518

1507 Johnston & Carlisle, *Belfast.* Linen yarns. Linens bleached for shirtings. 2491*i*

1508 Laing and Ewan, *Dundee.* Sheetings, dowlas, ducks, drills, and other linens, brown, creamed, and bleached. 2519

1511 Richardson, T. C., *Lurgan.* Linen fabrics and yarns. 2584

1512 Scales and Herbert, 9 *Gresham-street, London.* Electric waistcoatings, &c. 2263

Palais.

1513 Smyth, Weir, et Cie, *à Belfast, Antrim*, I.—Toiles de lin.

1514 Wilford et fils, *à Brompton, Northallerton, York*, A.—Coutils de lin, blanes, de couleur et imprimés; coutils de china grass blanes et teints pour vêtements.

1515 Wilson, J., et fils, *à Londres*, A.—Toiles de lin.

1516 York-street Flax Spinning Company, *à Belfast, Antrim*, I.—Toiles de lin. Fils de lin.

1513 Smyth, Weir, and Co., *Belfast.* Linen fabrics. 2585

1514 Wilford and Sons, *Brompton, Northallerton.* Ticking, coloured and printed. 2538

Palais.

1515 Wilson, J., and Sons, 159 *New Bond-street, London.* Linen goods. 2539

1516 York-street Flax Spinning Company, *Belfast.* Linen fabrics and yarns. 2587

7e Section. *Batistes.*

8e Section. *Toiles ouvrées ou damassées.*

Section 7. *Cambries.*

Section 8. *Damask and Diapered Fabrics.*

Palais.

1523 Beveridge, Erskine, *à Dumfermline, Fife*, E.—Tissus de lin pour nappes, serviettes, layettes écrues et blanches. Toiles de lin damassées. Tapis de table damassés de coton pur et de laine peignée et coton.

1524 Bozi et Cie, *à Belfast, Antrim*, I.—Toiles de lin écrues.

1525 Henning, J., *Warringstown, Down, I.*—Tapis de table damassés et nappes.

1526 Charley, J. et W., et Cie, *à Seymour-Hill, Belfast, I.*—Toiles de lin ouvrées et damassées.

1527 Clibborn, Hill, et Cie, *à Banbridge, Down*, I.—Toiles de lin ouvrées et damassées.

1528 Darbishire freres, *à Belfast, Antrim*, I.—Toiles de lin ouvrées et damassées.

1529 Fenton, fils, et Cie, *à Belfast, Antrim*, I.—Toiles de lin ouvrées et damassées.

1530 Pegler, C., *à Leeds, York*, A.—Toiles damassées pour linge de table, faites de lin de Flandre.

1531 Preston, John, et Cie, *à Belfast, Antrim*, I.—Toiles de lin.

1532 Richardson, J. N., fils, et Owden, *à Belfast, Antrim*, I.—Tissus de lin.

1523 Beveridge, Erskine, *Dunfermline, N.B.* Linen goods. Table cloths, napkins, &c. Damasks, &c. 2561

1524 Bozi and Company, *Belfast.* Linen fabrics. 2562

1525 Henning, J., *Warringstown, Down, Ireland.* Damask table-cloths and napkins. 2574

1526 Charley, J. and W., and Company, *Seymour-hill, Belfast.* Linen fabrics, damasked, &c. 2564

1527 Clibborn, Hill, and Company, *Banbridge, Down, Ireland.* Diapers. Damasks. 2567

1528 Darbishire Brothers, *Belfast.* Linen fabrics. Damasks. 2568

1529 Fenton, Son, and Co., *Belfast.* Linen fabrics. Damasks. 2570

1530 Pegler, C., *Leeds.* Damasks. 2581

1531 Preston, John, & Company, *Belfast.* Flax. 2491*k*

1532 Richardson, J. N., Sons, and Owden, *Belfast.* Linen fabrics. 2583

9e Section. *Tissus de fil avec mélange de coton ou de soie.*

Section 9. *Flax, mixed with Cotton or Silk.*

10e Section. *Tissus de filaments végétaux autres que le lin et le chanvre.*

Section 10. *Fabrics made from other Vegetable Fibres than Flax and Hemp.*

Palais.

1535 Neish, James, et Cie, *à Dundee, Forfar*, E.—Tapis faits de jute (*corchorus capsularis*) file à la mécanique, teint et tissé à la main. Nattes d'abaca (*musa textilis*) et de fibres de palmier.

1536 Thomson, D. et T., *à Dundée, Forfar*, E.—Fils de chanvre de l'Inde; tapis de chanvre de l'Inde.

1537 Treloar, Thomas, *à Londres*, A.—Tapis, nattes, couvertures, filets, brosses et balais faits de fibres de noix de coco.

1535 Neish, James, and Company, *Dundee.* Jute and hemp carpeting and matting. 2609

1536 Thomson, D. and T., *Dundee.* Jute carpeting and jute yarns. 2610

1537 Treloar, Thomas, 42 *Ludgate-hill, London.* Cocoa-nut fibre fabrics. 2611

Palais.

23e CLASSE.

Industries de la Bonneterie, des Tapis, de la Passementerie, de la Broderie et des Dentelles.

CLASS XXIII. Class 23.

Hosiery, Carpets, Embroidery, Lace of every kind, Gold and Silver Fringes, &c. Hosiery, Carpets, and Lace.

1re Section. *Tapis et Tapisserie de haute et de basse lisse.*

Section 1. *Carpets and Tapestry of the High and Low Warp.*

P. 1541 Bright et Cie, *à Manchester*, A.—Tapis velours de Bruxelles.

G. 1543 Brinton et fils, *à Kidderminster, Worcester*, A.—Tapis veloutés tissés sur le métier mécanique. Couvertures grossières.

P. 1544 Crossley, J., et fils, *à Halifax, York*, A.—Tapis velours; tapis de Bruxelles; tapis communs; tapisseries. Tapis de table de velours.

1545 Dixon et Cie, *à Kidderminster, Worcester*, A.—Tapis tissés sur métier mécanique.

G. 1546 Dobson, J.-L., *à Kidderminster, Worcester*, A.—Tapis.

1547 Fawcett, S., *à Kidderminster, Worcester*, A.—Tapis. Couvertures.

1541 Bright and Company, *Manchester.* Velvet pile and tapestry. Carpets and rugs. 2620 P.

1543 Brinton and Sons, *Kidderminster.* Carpets and rugs. 2624 P. G.

1544 Crossley, John, and Sons, *Halifax.* Carpets, tapestries, &c. 2625 P.

1545 Dixon and Company, *Kidderminster.* Power loom carpets. 2626

1546 Dobson, J. L., *Kidderminster.* Carpets. 2627 P. G.

1547 Fawcett, Samuel, *Kidderminster.* Carpets and rugs. 2628

P. G. 1548 Fawcett, W., et Cie, *à Kidderminster, Worcester*, A. —Tapis de laine peignée et de lin.

* Graham, Jackson, et Graham, *à Londres*, A.—Tapis. (Voir cl. 24.)

P. 1549 Hadden, Al., et fils, *à Aberdeen*, E.—Tapis. Bonneterie de laine. Fils de laine peignée.

1550 Harrison, Ch., *à Londres*, A.—Tapis veloutés. Tapis de Bruxelles.

Palais gallery. 1551 Henderson et Cie, *à Durham*, A.—Tapis veloutés. Tapis de Bruxelles. Tapis damassés et vénitiennes.

1552 Henderson et Widnell, *à Lasswade, près d'Edimbourg*, E.—Tapis et moquettes. Tapisseries pour rideaux et portières. Tapis de table.

1553 Humphries, G.-H., *à Kidderminster, Worcester*, A.—Tapis.

1554 Humphries, Th., *à Kidderminster, Worcester*, A.—Tapis veloutés et tapis de Bruxelles, faits de laine peignée et de lin.

P. & P. G. 1555 Lapworth et Cie, *à Londres*, A.—Tapis.

P. 1557 Morton et fils, *à Londres*, A.—Tapis.

P. G. 1558 Muir et Witcomb, *à Kidderminster, Worcester*, A.—Tapis de Bruxelles.

P. 1559 Newcomb et Jones, *à Kidderminster, Worcester*, A.—Tapis de laine peignée et de lin.

1560 Palmer, W., *à Kidderminster, Worcester*, A.—Tapis veloutés et tapis de Bruxelles faits de laine peignée et de lin.

1561 Pardoe, Hoomans, et Pardoe, *à Kidderminster, Worcester*, A.—Tapis.

P. G. 1561*a* Robinson et Cie, *à Londres*, A.—Tapis.

1562 Simcox, G.-P., *à Londres*, A.—Tapis. Couvertures grossières.

1563 Talbot, P., *à Kidderminster, Worcester*, A.—Tapis.

P. 1564 Tapling et Cie, *à Londres*, A.—Tapis. Couvertures grossières.

P. & P. G. 1565 Templeton, J., et Cie, *à Glasgow, Lanark*, E.—Tapis et tapis de foyer faits de laine peignée sur chaine de lin ou d'étoupe de lin.

P. G. 1567 Thomsons et Cie, *à Kilmarnock, Ayr*, E.—Tapis.

P. 1568 Smith, Tuberville, Boyle, et Cie, *à Londres*, A.—Tapis.

P. & P. G. 1569 Watson, Lowe et Bell, *à Londres*, A.—Tapis.

1570 Whitwell et Cie, *à Kendal, Westmoreland*, A.—Tapis.

P. G. 1571 Woodward, H., et Cie, *à Kidderminster, Worcester*, A.—Tapis de Bruxelles et tapis d'Aubusson.

1572 Worth, W.-H. et J., *à Kidderminster, Worcester*, A. —Tapis de Bruxelles, tissés sur métier mécanique.

1573 Wright, Crump et Crane, *à Kidderminster, Worcester*, A.—Tapis.

2e Section. *Tapis de feutre, de drap, et autres.*

P. G. 1574 Victoria Carpet Company, *à Londres*, A.—Tapis de feutre, brevetés.

P. 1575 Grundy, John et Edmund, *Bury et Manchester*, A. —Tapis de laine imprimés. (Voir N° 1349, 20e cl.)

3e Section. *Bonneterie.*

1578 Ball, T. et Cie.—Tissus élastiques pour gants et autres objets d'habillement. (Voir ci-dessous 7e section.)

1579 Glenny, Ch., *à Londres*, A.—Bonneterie de coton de Balbriggan: bas, chaussettes, gilets et caleçons.

P. G. 1581 Hine, Mundella et Cie, *à Nottingham*, A.—Bonneterie de coton, de laine, de soie.

1583 Nevill et Cie, *à Londres*, A.—Bonneterie de laine. Bonneterie de coton. Bonneterie de soie. Gants de chevreau, de filet, de tricot de laine, etc.

1585 Pelley, Hurst et Cie, *à Nottingham*, A.— Bonneterie de soie, de laine, de coton.

P. G. 1548 Fawcett, W., and Company, *Kidderminster*. Carpets. 2629

* Graham, Jackson, and Graham, *London*. Carpets. (See cl. 24.)

P. 1549 Hadden, Alex., and Sons, *Aberdeen*. Carpets, woollen yarns, and hose. 2630

1550 Harrison, Charles, 59 *Snow-hill, London*. Carpets. 2631

Palais gallery. 1551 Henderson and Company, *Durham*. Carpets. 2632

1552 Henderson and Widnell, *Lasswade, near Edinburgh*. Carpets. 2633

1553 Humphries, G. H., *Kidderminster*. Carpets. 2635

1554 Humphries, Thomas, *Vicar-street, Kidderminster*. Carpets. 2636

1555 Lapworth and Company, 22 *Old Bond Street, London*. Carpets. 2639

P. 1557 Morton and Sons, 17 *Skinner-street, London*. Carpets. 2641

P. G. 1558 Muir and Whitcomb, *Coldwall, Kidderminster*. Brussels carpets. 2642

P. 1559 Newcomb and Jones, 19 *Skinner-street, London*. Velvet pile carpet. 2643

1560 Palmer, W., *Church-street, Kidderminster*. Carpets. 2644

1561 Pardoe, Hoomans, and Pardoe, *Kidderminster*. Carpets. 2645

P. G. 1561*a* Robinson and Company, *Welbeck-street, London*. Carpets.

1562 Simcox, G. P., *Kidderminster*. Carpets and rugs. 2646

1563 Talbot, P., *Kidderminster*. Carpets. 2621

P. 1564 Tapling and Company, 105 *Wood-street, Cheapside, London*. Carpets and rugs. 2648

P. & 1565 Templeton, James, and Company, *Glasgow*. Carpets. 2649

P. G 1567 Thomsons and Company, *Green-street, Kilmarnock*. Carpets. 2650

P. 1568 Smith, Tuberville, Boyle, and Company, 9 *Great Marlborough-street, London*. Carpets. 2651

P. & 1569 Watson, Lowe, and Bell, 35 *Old Bond-street, London*. Carpets. 2652

1570 Whitwell and Company, *Kendal*. Carpets. 2653

P. G 1571 Woodward, H., and Company, *Church-street, Kidderminster*. Aubusson and other carpets. 2654

1572 Worth, W. H. and J., *Kidderminster*. Carpets. 2655

1573 Humphries, T., *Kidderminster*. Carpets. 2656

Section 2. *Felt, Cloth, and other Carpets.*

P. G 1574 Victoria Carpet Company, *London*. Patent felt carpets.

P. 1575 Grundy, John and Edmund, *Bury and Manchester*. Printed woollen carpets and druggets. (See No. 1349, cl. 19.)

Section 3. *Hosiery.*

1578 Ball, T., and Co. Elastic fabrics for gloves and other articles of dress. (See below, section 7.) 2725

1579 Glenny, C., *Balbriggan-house, Lombard-street, London*. Hosiery. 2667

P. 1581 Hine, Mundella, and Company, *Nottingham*. Hosiery. 2669

1583 Nevill and Company, 11 *Gresham-street West, London*. Silk, cotton, and woollen hosiery. 2670

1585 Pelley, Hurst, and Co., *Nottingham*. Silk, woollen, and cotton hosiery. 2673

4e Section. *Passementerie de soie, bourre de soie, laine, poil de chèvre, crin, fil et coton.*

M. 1590 Dart et Fils, *à Londres*, A.—Passementerie de coton, de chanvre, de laine, de soie et d'argent, pour voitures.

P. ✻ District de Manchester et Salford, A.—Franges, laeets, cordons, glands, galons et autres articles de passementerie de coton, laine et soie. Bretelles. (Voir cl. 19, 2e sect.)

G. 1591 Spiers et fils, *à Londres*, A.—Galons de soie et de coton pour border les chapeaux et les casquettes.

5e Section. *Passementerie en fin et en faux.*

6e Section. *Broderie.*

P. 1595 Brown, S.-R. et T., *à Glasgow*, E.—Broderies au plumetis, au crochet, au point d'arme, au point d'Alençon, au passé.

1596 Brown, Sharps et Tyars, *à Londres*, A.—Mousselines brodées au plumetis, au point d'arme et au crochet, pour robes, collerettes et parures de femme.

1597 Linklater, J. et R., *à Lerwick, Shetland*, E.—Châles tricotés. Voiles brodés.

1598 MacArthur, D., et Cie, *à Glasgow, Lanark*, E.—Dentelles pour voiles. Rideaux et robes de toilette.

1599 MacDonald, D. et J., et Cie, *à Glasgow, Lanark*, E.—Broderies au plumetis et au passé sur mousseline.

1599*a* Radley, —, *à Londres*, A.—Broderies.

1600 Salomons, B., et fils, *à Londres*, A.—Broderies.

1601 Turnbull, J., et Cie, *à Glasgow, Lanark*, E.—Mousselines brodées au plumetis, au point de feston et au point d'arme.

1602 Wallace, J. et W., *à Glasgow, Lanark*, E.—Mousselines à l'aiguille et jaconas brodés. Voilettes de soie faites au tambour.

1603 Wild et Bradbury, *à Nottingham*, A.—Châles, voilettes, barbes, etc., de dentelle de soie brodée faite à la mécanique.

Palais Gallery.

7e Section. *Dentelles.*

1608 Ball, T., et Cie, *à Nottingham*, A.—Dentelles de soie, dentelles façon Valenciennes et Buckingham, dentelles de velours, franges, etc., faites à la mécanique. (Voir ci-dessus 3e section.)

1609 Barnett et Maltby, *à Nottingham*, A.—Dentelles de soie, blanches et noires. Franges.

1610 Birkin, R., *à Nottingham*, A.—Dentelles de soie, noires et blanches, et guipures de soie, faites à la mécanique.

1611 Blackborne, A., *à Londres*, A.—Guipure d'Irlande. Dentelle au crochet.

1612 Clarke, Mme Esther, *à Londres*, A.—Dentelles de Honiton.

1612*a* Clarke, Jane, *à Londres*, A.—Dentelles d'Irlande.

1613 Moore, Crampton, et Cie, *à Londres*, A.—Dentelle de Honiton. Dentelle au crochet. Dentelles de Nottingham, soie et coton, faites à la mécanique. Mousselines brochées.

1614 Dann et Hebb, *à Nottingham*, A.—Dentelles.

1615 Dunnicliffe, J.-D., *à Nottingham*, A.—Dentelles de coton. Dentelles de soie.

1616 Forrest, J., et fils, *à Dublin*, I.—Applications de dentelles. Guipures d'Irlande, dentelles au crochet et au tambour.

1617 Goblet, H.-F., *à Londres*, A.—Dentelles de soie noires. Dentelles de coton blanches. Point d'Irlande en fil de coton. Cols, berthes, manchettes, barbes de coiffure, etc., de dentelle de coton et de soie.

1618 Gould, J. et F., *à Londres*, A.—Dentelles.

Palais Gallery.

Section 4. *Silk, Floss-silk, Woollen, Horsehair, Thread, and Cotton Lace-work.*

1590 Dart and Son, *Bedford-street, Covent-garden, London.* Coach lace of all kinds. 2683 A. M.

✻ Manchester Local Committee. Cotton goods of all kinds. (See cl. 19, sec. 2.) 2108 P.

1591 Spiers and Sons, *Spital-square, London.* Hat trimmings. 3008 P. G.

Section 5. *Real and Imitation Gold and Silver Lace.*

Section 6. *Embroidery.*

1595 Brown, S. R. and T., *Glasgow.* Embroideries. 2705 P.

1596 Brown, Sharps, and Tyars, 18 *Watling-street, London.* Embroidered muslins. 2706

1597 Linklater, J. and R., *Lerwick, Shetland.* Knitted shawls, veils, &c. 2711

1598 M'Arthur, D., and Company, *Glasgow.* Lace goods. 2684

1599 M'Donald, D. and J., and Company, *Glasgow.* Embroideries. 2712

1599*a* Radley, —, *Lambs Conduit-street, London.* Embroideries.

1600 Salomons, B. and Sons, *Old Change, London.* Embroideries. 2715

1601 Turnbull, John, and Company, *Glasgow.* Embroideries. 2713

1602 Wallace, J. and W., *Glasgow.* Embroideries. 2714

1603 Wild and Bradbury, *Nottingham.* Lace. 2751

Palais Gallery.

Section 7. *Lace.*

1608 Ball, T., and Co., *Nottingham.* Lace. (See above, section 3.) 2725

1609 Barnett and Maltby, *Nottingham.* Lace. 2726

1610 Birkin, R., *Nottingham.* Lace. 2727

1611 Blackborne, A., 56 *South Audley-street, Grosvenor-square, London.* Irish guipure. 2728

1612 Clarke, Esther, 18A *Margaret-street, Cavendish-square, London.* Honiton lace. 2729

1612*a* Clarke, Jane, *Regent-street, London.* Irish lace.

1613 Moore, Crampton, and Company, 5 *Bow Churchyard, and* 50 *Cheapside, London.* Laces. 2735

1614 Dann and Hebb, *Nottingham.* Lace. 2730

1615 Dunnicliffe, J. D., *Nottingham.* Lace. 2731

1616 Forrest, J., and Sons, 101 *Grafton-street, Dublin.* Lace mantles. Irish guipures. 2732

1617 Goblet, H. F., 20 *Milk-street, Cheapside, London.* Lace goods. 2733

1618 Gould, J. and F., 89 *Watling-street, London.* Lace goods. 2734

Palais Gallery.

Hosiery, Carpets, and Lace.

1619 Hebb, Alphens, *à Nottingham*, A.—Dentelles de soie blanches et noires.

1620 Herbert, W., *à Nottingham*, A.—Dentelles.

1621 Heymann et Alexander, *à Nottingham*, A.—Dentelles de coton et de soie.

1622 Jacoby et Berenhart, *à Nottingham*, A.—Antimacassar et garniture d'autel en dentelle de coton. Châle de dentelle de soie.

1623 Liberty et Tomlinson, *à Nottingham*, A.—Dentelle de coton. Dentelle de soie. Imitations de point de Bruxelles.

1624 Mallett, H., *à Nottingham*, A.—Dentelles blanches de coton. Dentelles de soie blanches et noires. Imitations de point de Valenciennes.

1625 Manlove et Livesey, *à Lenton, Nottingham*, A.—Dentelles de velours, franges de soie, franges de laine peignée et coton, etc., faites au métier méeanique.

1626 Marx, Moritz, *à Nottingham*, A.—Dentelles de coton fabriquées à la mécanique,

1627 Pullan, Mme Matilda, *à Londres*, A.—Dentelles de fils de coton et de lin mêlés.

1628 Reckless et Hickling, *à Nottingham*, A.—Dentelles de coton. Dentelles de soie.

1629 Riego de la Branchardiere, Mme Eleonore, *à Londres*, A.—Dentelles au crochet et au fuseau.

1631 Treadwin, C.-E., *à Exeter, Devon*, A.—Dentelles.

1631*a* Veevon, Madame, *à Ballieborough*, I.—Dentelles fabriquées par les enfans des écoles industrielles.

1632 Viccars junior, R., *à Padbury, Buckingham*, A.—Dentelles de coton et de fil de lin, faites au coussin.

1633 Vickers, W., *à Nottingham*, A.—Châles, voiles et voilettes, barbes, bandes, de dentelle de soie noire, de point d'Alençon et autres points, avec fonds brodés ou non.

Palais gallery.

1619 Hebb, Alphens, *Nottingham*. White and black silk lace.

1620 Herbert, W., *Pilcher-gate, Nottingham*. Lace. 2736

1621 Heymann and Alexander, *Nottingham*. Lace. 2738

1622 Jacoby and Berenhart, *Nottingham*. Lace. 2739

1623 Liberty and Tomlinson, *Nottingham*. Lace. 2741

1624 Mallett, H., *Nottingham*. Lace. 2742

1625 Manlove and Livesey, *Lenton, near Nottingham* Lace. 2743

1626 Marx, M., *Nottingham*. Lace. 2744

1627 Pullan, Matilda, 322 *Regent-street, London*. Point Lace. 2745

1628 Reckless and Hickling, *Nottingham*. Lace. 2746

1629 Rifgo de la Branchardiere, Eleonore, 72 *New Bond-street*. Crochet and point lace. 2747

1631 Treadwin, C. E., *Exeter*. Lace. 2752

1631*a* Veevon, Mrs., *Ballieborough, Ireland*. Lace worked by children of the Industrial Schools.

1632 Viccars, R., jun., *Padbury, near Buckingham*. Pillow lace. 2749

1633 Vickers, W., *Nottingham*. Lace. 2750

Palais gallery.

Class 24.

Furniture and Decoration.

24e CLASSE.

Industries concernant l'Ameublement et la Décoration.

1re Section. *Objets de décoration, d'ornement ou d'ameublement, en pierres et matières pierreuses.*

1644 Coates, E.-J., *à Birmingham, Warwick*, A.—Trumeaux de cheminée.

1645 Davies, W., *à Londres*, A.—Dessus de table de verre.

1646 Dolan, D., *à Manchester, Lancastre*, A.—Colonne gothique propre à montrer le procédé de moulage du scagliola.

1647 Ford, D., *à Londres*, A.—Dessus de table et tablettes de verre imitant le marbre et la mosaïque.

1648 Gates et George, *à Londres*, A.—Autel de pierre d'Aubigny pour une chapelle de l'Immaculée Conception. Sculptures et ornements style moyen-âge de pierre d'Aubigny et de pierre de Caen.

1648*a* Giorgi, Gustavo, *à Londres*.—Imitation de mosaïque.

1649 Hall, J.-T., *à Derby*, A.—Vases, encriers, candélabres et modèles d'obelisque faits de marbre noir du Derby. Ouvrages de mosaïque.

1650 London and Penzance Serpentine Company, *à Penzance, Cornouailles*, A.—Serpentines taillées et sculptées pour la décoration et l'architecture.

1651 Mac Donald, Alex., *à Aberdeen*, E.—Obélisque. Piédestaux.

1652 Magnus, G.-E., *à Londres*, A.—Meubles et ouvrages d'ardoise émaillée.

A. E. 1653 Phillips, S., *à Londres*, A.—Objets de décoration et d'ameublement en pierre dure.

P. 1654 Stevens, G.-H., *à Londres*, A.—Piédestaux, candélabres; panneaux d'autel et dessus de table faits de mosaïque de verre, de marbre et de scagliola.

Palais.

CLASS XXIV.

Furniture and Decoration.

Section 1. *Decorative Furniture made of Stone or Stony Substances.*

1644 Coates, E. J., *High-street, Birmingham*. Mantelpieces. 2761

1645 Davies, W., 5 *Harcourt-street, New-road, London*. Glass table tops. 2810

1646 Dolan, D., 73 *Back George-street, Manchester*. Columns in scagliola. 2762

1647 Ford, David, 5 *James-street, Islington, London*. Imitation of marble on glass. 2811

1648 Gates and George, *Rotherhithe, London*. Carving in Caen stone. Altar of Aubigny stone for a chapel. 2772

1648*a* Giorgi, Gustavo, *Gower-street, London*. Imitation mosaic.

1649 Hall, J. T., *Derby*. Marble and spar ornaments. 2763

1650 London and Penzance Serpentine Company, *Milbank-street, London*. Marble ornaments. 2766

1651 McDonald, Alex., *Granite Works, Aberdeen*. Pedestals and an obelisk. 2765

1652 Magnus, G. E., *Whitehall Wharf, Westminster*. Enamelled slate. 2767

1653 Phillips, S., 8 *Whitehall-wharf, Westminster*. Siliceous stone. 2768

1654 Stevens, G. H., 14 *Stafford-row, Pimlico, London*. Mosaic table tops. Pedestals, &c. 2770

2e Section. *Objets de décoration, d'ornement et d'ameublement, en métal (sauf renvoi aux classes XVI et XVII).*

1659 Wilson, G., *à Manchester, Laneastre*, A.—Vase. Echiquier.

3e Section. *Meubles et ouvrages d'Ebénisterie d'usage courant.*

1663 Comolera, Mme Melanie, *à Lower Norwood, Surrey*, A.—Eerans.
1664 Cottam jeune et Cie, *à Londres*, A.—Chaise avec ornements de ehêne des marais d'Irlande.
1665 Crace, J.-G., *à Londres*, A.—Meubles. Décors dans le style gothique.
1667 Gillow et Cie, *à Londres*, A.—Meubles.
1669 Fry, W., et Cie, *à Dublin*, I.—Meubles.
1671 Holland et fils, *à Londres*, A.—Meubles et objets d'ameublement faits de bois, de marbre, de porcelaine et de métal.
1672 Kendell, J., et Cie, *à Leeds, York*, A.—Meubles.
1672*a* Lawrie, T., *à Glasgow*, E.—Tables.
1673 Morant et Boyd, *à Londres*, A.—Meubles et objets de décoration.
1674 Moxon, C., *à Londres*, A.—Meubles.
1675 Smee, W., et fils, *à Londres*, A.—Meubles.
1677 Taylor, J., *à Londres*, A.—Pupitre à écrire.
1678 Jennens et Bettridge, *à Londres et à Birmingham*, A.—Meubles en papier mâché. (Voir classe 25.)

4e Section. *Meubles de luxe et Objets de décoration caractérisés par l'emploi des bois précieux, de l'ivoire, de l'écaille, le travail de sculpture ou d'incrustation, et l'addition d'ornements de prix.*

P. 1681 Banting et fils, *à Londres*, A.—Bibliothèque de bois de sycomore seulpté. Armoire de bois de satin et de tulipe. Table de bibliothèque de noyer. Encadrements de glaee.
P. G. 1683 Clarke, J.-A., *à Dublin*, I.—Sculptures en bois indigenes.
P. 1684 Jackson et Graham, *à Londres*, A.—Meuble de marqueterie avec figurines et ornements de bronze ciselé et doré, surmonté d'une glace dans un eadre doré. (Voir el. 23.)
P. G. 1685 Howton, G.-W., *à Londres*, A.—Seulptures sur bois de tilleul et de syeomore.
P. 1686 Levien, J.-M., *à Londres*, A.—Table ronde de mosaïque de bois.
P. G. 1688 Peel, J., *à Fulneck, près de Leeds, York*, A.—Médaillons de bois et de marbre faits au tour.
P. 1689 Trollope, G., et fils, *à Londres*, A.—Meubles de marqueterie de bois de couleur.
P. G. 1690 Wallis, Th.-Wilk., *à Louth, Lineoln*, A.—Statuettes, oiseaux, fleurs, nature morte, seulptés en bois.
P. 1691 Webb, J., *à Londres*, A.—Meubles de marqueterie.

5e Section. *Objets de décoration ou d'ameublement en bois, en matières moulées, etc., dorés, laqués, etc.*

P. 1697 Jackson, G., et fils, *à Londres*, A.—Objets de décoration et d'ameublement; décors d'architecture faits de earton-pierre, plâtre, pâtes, etc.
A. E. 1698 Nixon, Thomas, *à Rothwell, Northampton*, A.—Spécimens de peinture et vernissure sur sapin.
P. G. 1699 Smith, H. A., *Hampstead, à Londres*, A.—Model d'un plafond du 14e siècle.

Section 2. *Decorative Furniture in Metal.*

1659 Wilson, G., *St. Anne's-square, Manchester.* Vase. Chess-board. P.

Section 3. *Cabinet Work for daily use.*

1663 Comolera, Madame Melanie, *Lower Norwood, Surrey.* Two sereens. 2817
1664 Cottam, jun., and Co., *London.* Chair with Irish bog-oak ornaments.
1665 Crace, J. G., 14 *Wigmore-street, London.* Cabinet work. 2790
1667 Gillow and Company, 176 *Oxford-street, London.* Cabinet manufaeture. 2792
1669 Fry, W., and Company, 31 *Westmoreland-street, Dublin.* Furniture. 2832
1671 Holland and Sons, 23 *Mount-street, Grosvenor-square, London.* Furniture. 2833
1672 Kendell, J., and Co., *Leeds.* Furniture.
1672*a* Lawrie, T., *Glasgow.* Tables. 2837
1673 Morant and Boyd, 91 *New Bond-street, London.* Furniture. 2838
1674 Moxon, C., *High-street, Marylebone, London.* Furniture. 2836
1675 Smee, W., and Sons, *Finsbury-pavement, London.* Cabinet furniture. 2794
1677 Taylor, J., *London.* Writing-desk.
1678 Jennens and Bettridge, *London and Birmingham.* Papier mâché furniture. (Sec class 25.)

Section 4. *Fancy Furniture and Decorative Articles, characterised by the use of costly Woods, Ivory, Shell, by Sculpture and Inlaid Work, and by the addition of costly Ornaments.*

1681 Banting and Sons, *St. James's-street, London.* Cabinet work. 2789 P.
1683 Clarke, J. A., 43 *Abbey-street, Dublin.* Carving in various native woods. 2809 P. G.
1684 Jackson and Graham, 35, *Oxford-street, London.* Furniture. (Sec el. 23.) 2834 P.
1685 Howton, G. W., 35 *Thayer-street, Manchester-square, London.* Carvings from wood. 2813 P. G.
1686 Levien, J. M., 10 *Davis-street, Grosvenor-square, London.* Mosaie table. 2771 P.
1688 Peel, J., *Fulneck, near Leeds.* Medallions. 3205 P. G.
1689 Trollope, G., and Sons, 15 *Parliament-street, London.* Furniture, &e. 2841 P.
1690 Wallis, T. Wilkinson, *Gospel-gate, Louth, Lincolnshire.* Fine Art. Carvings in wood. 2816 P. G.
1691 Webb, J., *London.* Marquetry. P.

Section 5. *Decorative Furniture of Wood or Moulded Substances, &c., gilt, lacquered, &c.*

1697 Jackson and Sons, 49 *Rathbone-plaee, London.* Architeetural and other decorations in earton-pierre. 2835 P.
1698 Nixon, Thomas, *Rothwell, Northamptonshire.* Specimens of painting and oil staining on deal. 2839 A. E.
1699 Smith, H. A., 2 *Caroline-place, Hampstead.* Model of a ceiling of the 14th century. 2885 P. G.

PALAIS.

6e Section. *Objets d'ameublement en roseaux, pailles, etc.; Accessoires d'ameublement; Ustensiles de ménage.*

P. **1702** Armstrong, John, *à Londres*, A.—Nattes, paillassons, paniers, sacs à avoine pour chevaux, faits de fibres de coco. Nattes de fibres de coco et de fils de laine. Nattes de fibres de coco, de fils de laine et de jute.

* Dagnall et Tilbury. Nattes. (Voir cl. 22.)

A. M. **1703** Smith, Th., *à Hailsham, Sussex*, A.—Paniers d'osier pour écuries. Paniers de frêne pour usages agricoles. Petits paniers de vannerie fine pour dames.

1704 Ward, J., *à Londres*, A.—Chaise à roulettes.

Section 6. *Furniture made of Reeds, Cane, Straw, &c., Household Utensils.*

1702 Armstrong, John, 13 *Stanmore-street, Islington, London.* Cocoa-nut fibre. 2608 P.

* Dagnall and Tilbury. Matting. (See cl. 22.) 2493

1703 Smith, Thomas, *Herstmonceux, Hailsham.* Truck baskets. 380 A. M.

1704 Ward, J., *London.* Wheel chair. 407

7e Section. *Ouvrages de tapissier.*

P. **1707** Wildey et Cie, *à Londres*, A.—Fibres de noix de coco pour rembourrer les matelas. Nattes, paillassons, filets, cordages, ficelles et brosses de fibres de coco.

Section 7. *Upholsterers' Work.*

1707 Wildey and Company, *Holland-street, Blackfriars-road, London.* Cocoa-nut fibre. 2612 P.

8e Section. *Papiers peints, Tissus et Cuirs préparés pour tentures, stores, cartonnages, reliures, etc.*

1710 Coopers, W., et Cie, *à Londres*, A.—Papiers peints pour salons.

1711 Heywood, Higginbotham, et Smith, *à Manchester, Lancastre*, A.—Papier peints.

1712 Southall, Ch., *à Londres*, A.—Papiers peints imitant le bois.

1713 Williams, Coopers et Cie, *à Londres*, A.—Papiers peints.

1714 Woollams, J., et Cie, *à Londres*, A.—Papiers peints

1715 Woollams, W., et Cie, *à Londres*, A.—Papiers peints.

Section 8. *Stained Paper, Stuffs, and Leather prepared for Hangings, Blinds, Bookbinding, &c.*

1710 Coopers, W. and Co., London. Paper hangings. 2878

1711 Heywood, Higginbotham, and Smith, *Manchester.* Paper-hangings. 2877

1712 Southall, Charles, 157 *Kingsland-road, Shoreditch, London.* Imitation of woods on paper. 2873

1713 Williams, Coopers, and Company, 85 *West Smithfield, London.* Paper-hangings. 2874

1714 Woollams, John, and Company, 69 *Marylebone-lane, London.* Assortment of paper-hangings printed by steam cylinder—machinery, &c. 2875

1715 Woollams, W., and Company, 110 *High-street, Marylebone, London.* Paper-hangings. 2876

9e Section. *Peintures en décors, matériel des Théâtres, des Fêtes et des Cérémonies.*

Section 9. *Decorative Painting, Fittings for Theatres, Public Ceremonies, &c.*

10e Section. *Meubles, ornements et décors pour les Services religieux.*

P. **1721** Prichard et Seddon, *à Landaff*, A.—Lutrin.

Section 10. *Church Furniture, Ornaments, and Decorations.*

1721 Prichard and Seddon, *Llandaff.* Church reading-desk. 2895

25e CLASSE.

Class 25. Clothing, Fancy Articles, &c.

Confection des articles de Vêtement; fabrication des objets de Mode et de Fantaisie.

1re Section. *Matériel et éléments de la confection des Vêtements; Boutons, etc.*

Palais. **1724** Aston, J., *à Birmingham, Warwick*, A.—Boutons de soie et de velours pour vêtements de dame faits à la mécanique sur moules de métal.

1725 Aston, W., *à Birmingham, Warwick*, A.—Boutons.

1726 Banks et Hammond, *à Birmingham, Warwick*, A.—Boutons de nacre.

1727 Chatwin et fils, *à Birmingham, Warwick*, A.—Boutons.

1728 Firmin et fils, *à Londres*, A.—Boutons de cuivre doré et d'argent.

CLASS XXV.

Articles of Clothing, Objects of Fashion and Fancy.

Section 1. *Materials used in making Clothes, Buttons, &c.*

1724 Aston, John, *St. Paul's-square, Birmingham.* Buttons. 2904 Palais.

1725 Aston, W., *Princip-st., Birmingham.* Buttons. 2905

1726 Banks and Hammond, 12 *Parade, Birmingham.* Buttons, moulds, &c. 2906

1727 Chatwin and Sons, *Great Charles-street, Birmingham.* Buttons. 2907

1728 Firmin and Sons, 153 *Strand.* Buttons. 2908

Palais.

1729 Hammond, Turner et Cie, *à Birmingham, Warwick*, A.—Boutons de nacre.
1730 Neal et Tonks, *à Birmingham, Warwick*, A.—Boutons.
1731 Seaber, Th., et Cie, *à Worcester*, A.—Boutons de cuir et fil de fer.
1732 Smith, Kemp, et Wright, *à Birmingham, Warwick*, A.—Boutons.
1733 Dain, Watts et Cie, *à Birmingham, Warwick*, A.—Boutons.

1729 Hammond, Turner, and Company, *Snow-hill, Birmingham.* Buttons. 2909
1730 Neal and Tonks, *Great Charles-street, Birmingham.* Buttons. 2911
1731 Seaber, T., and Company, 7½ *High-street, Worcester* Leather buttons. 2912
1732 Smith, Kemp, and Wright, *Brearley-street West, Birmingham.* Buttons. 2913
1733 Dain, Watts, and Company, *Birmingham.* Buttons. 2914

Palais.

2e Section. *Objets de lingerie ; Corsets, Bretelles et Jarretières.*

1735 Joubert, Caroline, *à Londres*, A.—Corsets.
1736 Marion et Maitland, Mmes, *à Londres*, A.—Corsets élastiques.
P. G. 1737 Nicoll, B., *à Londres*, A.—Chemises.
1739 Pierre, J., *à Durham*, A.—Corset.
1740 Smith, Mme Charlotte, *à Bedford*, A.—Corsets. Bottines de soie élastiques.
P. 1742 Taylor, R.-H., *à Birmingham, Warwick*, A.—Bretelles et jarretières.

Section 2. *Linen Drapery ; Stays, Braces, and Garters.*

1735 Joubert, Caroline, 8 *Maddox-street, London.* Corsets. 2929
1736 Marion and Maitland (Mesdames), 54 *Connaught-terrace, London.* Resilient bodices. 2930
1737 Nicoll, B., 42 *Regent-circus, London.* Shirts. 2931 P. G.
1739 Pierre, Jean, 82 *New Elvet, Durham.* French corsets. 2926
1740 Smith, Charlotte, 1 *Priory-terrace, Bedford.* Corsets and silk boots. 2927
1742 Taylor, R. H., *Broad-street, Birmingham.* Webs and braces. 2928 P.

3e Section. *Habits et Vêtements accessoires.*

1746 Edmiston et fils, *à Londres*, A.—Vêtements imperméables.
1747 Homan, Harvey et Cie, *à Londres*, A.—Vêtements à l'usage des colonies.
P. G. 1748 Lucas, C., et Cie, *à Londres*, A.—Vêtements imperméables.
1749 Oriental Waterproof Company, *à Londres*, A.—Vêtements imperméables.
1750 Wansbrough, J., *à Londres*, A.—Vêtements enduits de caoutchouc.

Section 3. *Coats and Clothes.*

1746 Edmiston and Son, 69 *Strand.* Waterproofs. 2938
1747 Homan, Harvey, and Company, 7 *Russia-row, London.* Colonial clothing. 2939
1748 Lucas, C., and Company, 59 *Regent-street, London.* Waterproof and woollen garments. 2940 P. G.
1749 Oriental Waterproof Company, 48 *Piccadilly, London.* Waterproofs. 2941
1750 Wansbrough, J., 64 *Bridge-street, Southwark-bridge-road, London.* India-rubber garments. 2942

4e Section. *Chaussures, Guêtres et Gants.*

1755 Atloff, J.-G., *à Londres*, A.—Bottes et souliers.
P. G. 1757 Bearn, J., *à Northampton*, A.—Bottes et souliers pour hommes.
1758 Cheilley, Hugues, jun., *à Londres*, A.—Gants.

A. E. 1758*a* Clark, C. et J., *à Glastonbury*, A. Souliers et bottines pour femmes et enfants.

1759 Coles, W.-Fl., *à Londres*, A.—Semelles de liége et autres.
1760 Creak, J., *à Wisbeach, Cambridge*, A.—Bottes imperméables. Bottines.
1761 Cremer, G., et Cie, *à Londres*, A.—Chaussures d'homme.
1762 Dent, Allcroft et Cie, *à Londres*, A.—Gants de chevreux. Manteau de peau de daim, de soie et coton.
1763 Devlin, J.-D., *à Londres*, A.—Bottes et souliers. Spécimens des différentes parties du travail du cordonnier. Chefs-d'œuvre de cordonnerie.
1764 Dowie, J., et Cie, *à Londres*, A.—Chaussures d'hommes.
1765 Fownes freres, *à Londres*, A.—Gants de chevreau, de daim, de peau de chien. Taffetas, velours et draps tissés à la mécanique.

Palais Gallery.

Section 4. *Boots and Shoes, Gaiters and Gloves.*

1755 Atloff, John George, 69 *New Bond-street, London.* Ladies' boots and shoes. 2949
1757 Bearn, James, *Newland, Northampton.* Boots and shoes. 2951 P. G.
1758 Cheilley, Hugues, jun., 6 *Foster-lane Cheapside, London.* Gloves. 2952
1758*a* Clark, C. and J., *Glastonbury*, A. Ladies' and children's shoes. A. E.
1759 Coles, William Fletcher, *Paul-street, Finsbury, London.* Cork soles. 2953
1760 Creak, James, *Church-terrace, Wisbeach Cambridgeshire.* Boots and shoes, waterproof. 2954
1761 Cremer, George, and Company, 20 *Surrey-place, Old Kent-road, near London.* Boots. 2955
1762 Dent, Allcroft, and Company, 97 *Wood-street, London.* Gloves. 2956
1763 Devlin, James Dacres, 24 *Liverpool-street, City, London.* Boots and shoes. 2957
1764 Dowie, James, and Company, 455 *Strand, London.* Boots. 2959
1765 Fownes, Brothers, 41 *Cheapside.* Gloves. 2960

Palais Gallery.

1766 Garner, D., *à Arbroath, Forfar*, E.—Formes de bois pour la chaussure; formes pour les gants.

1768 Gordon, E., *à Londres*, A.—Chaussures d'homme.

1769 Hall, Sparkes, *à Londres*, A.—Bottes et souliers.

1770*a* Henderson, J., *à Londres*, A.—Bottes et souliers.

1771 Hickson, W., et fils, *à Londres*, A.—Bottes et souliers pour l'armée et la marine, pour les pêcheurs, les mineurs, les fermiers, et les paysans. Chaussures de tout genre pour hommes, femmes et enfants.

1774 Hook, J., *à Londres*, A.—Bottines et souliers pour femmes.

1775 Hoppe, J., *à Londres*, A.—Bottes pour hommes; bottines et souliers pour femmes.

1776 Hubert, Ch., *à Londres*, A.—Bottes et souliers.

1778 Line, W. et J., *à Daventry, Northampton*, A.—Bottes et souliers solides et à bon marché.

1779 Mather, J., *à Rochdale, Lancastre*, A.—Chaussures de tout genre.

1780 Medwin, J., et Cie, *à Londres*, A.—Bottes et souliers.

1781 Moore, G., *à Northampton*, A.—Chaussures pour hommes et pour femmes.

1783 Norman, S.-W. et E.-G., *à Londres*, A.—Bottes à semelles de liége; chaussures avec semelles sans couture et imperméables.

1784 Pattison, Edw., *à Londres*, A.—Bottines pour femmes et souliers.

1785 Peal, Nath., *à Londres*, A.—Bottes pour la chasse et la pêche, de cuir rendu imperméable.

1786 Riddell, J.-H. et Cie, *à Londres*, A.—Gants.

1787 Saunders, Christopher, *à Reading, Berks*, A.—Bottes et souliers.

1788 Smith, A., *à Londres*, A.—Machine à nettoyer les chaussures.

1789 Sully, Ch., et fils, *à Londres*, A.—Bottes et souliers.

1790 Bowley, Robert, et Cie, *à Londres*, A.—Bottes et souliers.

1791 Thomas, R., et fils, *à Londres*, A.—Bottes.

1793 Walsh, W., *à Londres*, A.—Bottes et souliers.

1794 Warne, Th., *à Londres*, A.—Souliers pour l'armée.

1766 Garner, D., 58 *High-street, Arbroath.* Boot-trees and lasts 2961

1768 Gordon, Edwin, 6A *Princes-street, Leicester-square, London.* Boots and shoes. 2963

1769 Hall, Sparkes, 308 *Regent-street, London.* Boots and shoes. 2965

1770*a* Henderson, J., 47 *Howland-street. London.* Boots and shoes. Clogs and Goloshes. 2964

1771 Hickson, William, and Son, 20 *Smithfield, London.* Boots and shoes. 2967

1774 Hook, John, 66 *New Bond-street, London.* Boots and shoes. 2970

1775 Hoppe, John, 3 *Bishopsgate-street Without, London.* Boots and shoes. 2971

1776 Hubert, Charles, 292 *Regent-street, London.* Boots and shoes. 2972

1778 Line, William and John, *New-street, Daventry.* Boots and shoes. 2974

1779 Mather, John, 45 *Drake st., Rochdale.* Boots. 2975

1780 Medwin, James, and Company, 86 *Regent-street, London.* Boots and shoes. 2976

1781 Moore, George, *Woolmonger-street, Northampton.* Boots and shoes. 2977

1783 Norman, S. W. and E. G., 4 *Oakley-street, Lambeth London.* Cork sole boots. 2979

1784 Pattison, Edward, 74 *Oxford-street, London.* Ladies' boots and shoes. 2980

1785 Peal, Nathaniel, 11 *Duke-street, Grosvenor-square, London.* Waterproof leather boots. 2981

1786 Riddell, Joseph H., and Company, 5 *Sherborne-lane, London.* Gloves. 2990

1787 Saunders, Christopher, 41 *Thorn-street, Reading.* Boots and shoes. 2982

1788 Smith, A., 7 *Osborne-street, Whitechapel.* Boot-cleaning machine. 610

1789 Sully, Charles, and Son, 149 *Fenchurch-street, London.* Boots and shoes. 2983

1790 Bowley, Robert, and Company, 53 *Charing-cross, London.* Boots and shoes. 2984

1791 Thomas, Robert, and Son, 36 *St. James's-street, London.* Boots, &c. 2985

1793 Walsh, William, 2 *Carburton-street, Fitzroy-square, London.* Ladies' boots and shoes. 2987

1794 Warne, Thomas, 9 *Henrietta-street, Covent-garden, London.* Antigropelos and army shoes. 2988

Palais gallery.

Palais gallery.

5e Section. *Chapeaux et Coiffures.*

1802 Allan et Badger, *à Londres*, A.—Chapeaux de paille.

P. G. 1803 Barber, S., *à Brentford-bridge, près de Londres*, A.—Tissus faits de filaments végétaux purs ou mêlés de coton ou de soie, destinés à fermer le corps des chapeaux de soie ou de mérinos.

1804 Berni et Melliard, *à Londres*, A.—Chapeaux de soie, de feutre et de castor.

P. 1805 Blair, J. et W.-A., *à Glasgow*, E.—Chapeaux de peluche de soie sur galette de liége, de feutre ou de calicot. Casquettes.

1806 District de Manchester et Salford, A.—Chapeaux de feutre et de soie.

1807 Gaimes, Sanders et Nicol, *à Londres*, A.—Chapeaux de soie avec galette de bambou ou de liége.

P. G. 1808 Lee, H., et fils, *à Londres*, A.—Peaux et fourrures pour chapeaux.

1809 Long, G., *à Loudwater, près de High-Wicombe, Bucks*, A.—Chapeaux et bonnets de femme.

1810 Tress et Cie, *à Londres*, A.—Chapeaux de soie, de mérinos et de cuir.

Section 5. *Hats and Caps.*

1802 Allan and Badger, 157 *Cheapside, London.* Straw bonnets and hats. 3000

1803 Barber, Samuel, *Brentford-bridge, Middlesex.* Grass fabrics for hats, &c. Silk and merino hats. 3010 P. G.

1804 Berni and Melliard, 57 *Great Guildford-street, Southwark.* Hats. 3001

1805 Blair, J. and W. A., *St. Enoch-square, Glasgow.* Hats and caps. 3002 P.

1806 Manchester Local Committee, *Manchester.* Felt and silk hats. 3004

1807 Gaimes, Sanders, and Nicol, 22 *Birchin-lane, Cornhill, and* 111 *Strand, London.* Hats. 3005

1808 Lee, Henry, and Sons, *Loman-street, Southwark, London.* Skins and furs for hats, &c. 3006 P. G.

1809 Long, G., *Loudwater, near High Wycombe, Bucks.* Ladies' hats and bonnets. 3007

1810 Tress and Company, 27 *Blackfriars-road, London.* Hats. 3009

6e Section. *Ouvrages en Cheveux; Parures en plumes et en perles; Fleurs artificielles.*

1814 Carles, H. R., *à Londres*, A.—Perruques et toupets.
1815 Foster, Son, et Duncum, *à Londres*, A.—Fleurs artificielles. Apprêts.
G. 1816 Jones, W., *à Londres*, A.—Branche d'aubépine faite de mousseline et de batiste.
1819 Mantel, J., *à Bedford*, A.—Raies de chair pour perruques.

Section 6. *Hair-work, Feather and Bead Head-dresses, Ornaments, Artificial Flowers.*

1814 Carles, H. R., *London.* Wigs and toupees
1815 Foster, Son, and Duncum, *London.* Artificial flowers.
1816 Jones, W., 85 *Chapel-street, Pentonville, London.* Artificial flowers. 3021 P. G.
1819 Mantel, John, *Silver-street, Bedford.* Skin partings for wigs. 3024

7e Section. *Objets confectionnés ou brodés à l'aiguille, au crochet, etc.*

. G. 1822 Ellis, Sophia A., *à Ardee, Louth*, I.—Ouvrages de perles faits au crochet, à la façon d'Irlande.
1823 Lenigan, Mme Ellen, *au château de Fogerty, près Thurles, Tipperary*, I. — Bonnets, collerettes, manches, guimpes, mantelets faits au crochet en imitation de guipure.

Section 7. *Needlework, &c.*

1822 Ellis, Sophia A., *Ardee, Louth, Ireland.* Irish pearl tatting. 2707
1823 Lenigan, Mrs. E., *Castle Fogerty, Thurles, Ireland.* Crochet work. 2710 P. G.

8e Section. *Eventails, Écrans, Parasols, Parapluies, Cannes.*

P. 1826 Dark, R., *à Londres*, A.—Bats pour le jeu de crieket.
1827 Holland, H., *à Birmingham, Warwick*, A.—Parapluies et ombrelles. Montures creuses d'acier.
. G. 1828 Meyers, B., *à Londres.*—Cannes.
1829 Sangster, W. et J., *à Londres*, A.—Parapluies de soie et d'alpaca; montures d'acier légères. Ombrelles de crêpe de Chine, de dentelle d'Irlande et d'alpaca.

Section 8. *Fans, Screens, Parasols, Umbrellas, Sticks.*

1826 Dark, R., *London.* Cricket bats, &c.
1827 Holland, Henry, *Darwin-street, Birmingham.* Umbrellas and parasols. 3046 P.
1828 Meyers, B. *Mill-lane, Tooley-street.* Canes, &c.
1829 Sangster, W. J., 140 *Regent-street, London.* Umbrellas and parasols. 3047 P G.

9e Section. *Tabatières et Pipes, Peignes et Brosses fines, petits objets de Tabletterie, en bois, en ivoire, en écaille, etc.*

1834 Child, W.-H., *à Londres*, A.—Brosses de toilette et brosses à habits, faites de fibre de coco, de plume d'oie, de soie de sanglier, montées sur bois, ivoire, écaille. Brosses à dents et à ongles.
P. G. 1835 Coate, J., et Cie, *à Londres*, A.—Brosses.
1836 Devanha Comb Works Company, *à Aberdeen*, E.—Peignes de tout genre. Matières premières qui servent à leur fabrication.
1837 Dow, And., *à Liverpool, Lancastre*, A.—Brosses de crin, de poil de chèvre et de chevaux, pour l'orfévrerie, l'horlogerie, la bijouterie.
1838 Furniss, H.-W., *à Sheffield, York*, A.—Petits meubles de corne de buffle.
P. 1839 Gill, W., et fils, *à Sheffield, York*, A.—Peignes.
P. G. 1840 Hitch, M., *à Cowes, Hamp.*, A.—Peignes de corne.
1841 Jackson, Th., *à Sheffield, York*, A.—Brosses.
P. 1842 Jackson, W., *à Sheffield, York*, A.—Brosses d'horloger. Brosses à barbe.
P. G. 1843 Kent, G.-B., et Cie, *à Londres*, A.—Brosses.

Section 9. *Snuff-boxes and Pipes, Combs and Brushes, small articles of Hardware and in Ivory, Wood, Shell, &c.*

1834 Child, W. H., 20 *Providence-row, Finsbury, London.* Brushes. 3060
1835 Coate, J., and Company, 19 *Marylebone-street, St. James's, London.* Brushes. 3061 P. G.
1836 Devanha Comb Works Company, *Aberdeen.* Side, braid, and pocket combs, also hoofs, horn in original state. 3062
1837 Dow, Andrew, *Childwall-street, Liverpool.* Plate, watch, and jewel brushes. 3063
1838 Furniss, H. W., *Pondhill, Sheffield.* Buffalo horn furniture. 3064
1839 Gill, W., and Son, *St. James-street, Sheffield.* Combs. 3065 P.
1840 Hitch, Mark, 47 *High-street, Cowes, Isle of Wight.* Horn combs. 3066 P. G.
1841 Jackson, Thomas, *Pinstone-street, Sheffield.* Brushes. 3067
1842 Jackson, William, *Carver-street, Sheffield.* Brushes. 3068 P.
1843 Kent, G. B., and Company, *Great Marlborough-street, London.* Brushes. 3069 P. G.

Palais gallery.

1844 Levinson, M., *à Londres*, A.—Peignes et Brosses.

1845 Metcalfe, Bingley et Cie, *à Londres*, A.—Brosses de toilette.

1846 Nash jeune, Th., *à Londres*, A.—Brosses et pinceaux pour les peintres.

1847 Salomons, A., *à Londres*, A.—Vase d'ivoire fait au tour. Panier d'ivoire formé de spirales faites au tour.

1848 Smith, A., *à Londres*, A.—Brosses de fibre de coco,

P. G. 1849 Tweedy, T. H., *Newcastle-sur-Tyne*, A.—Sculptures en bois.

1844 Levinson, M., *Knightsbridge, London.* Brushes. 3075

1845 Metcalfe, Bingley, and Company, 130*b* *and* 131 *Oxford-street, London.* Toilet brushes. 3070

1846 Nash, Thomas, jun., 134 *Great Dover-road, Southwark, London.* Brushes. 3071

1847 Salomons, A., *London.* Ivory vase; ivory basket.

1848 Smith, Augustus, 9 *Osborn-street, Whitechapel, London.* Brushes. 3073

1849 Tweedy, T. H., *Newcastle-on-Tyne.* Carvings in wood. P. G.

Palais gallery.

10e Section. *Petits meubles, Coffrets, Nécessaires, Encriers; Objets de fantaisie confectionnés ou décorés avec l'ivoire, l'écaille, les bois, les pierres, les métaux, etc.*

P. G. 1854 Asprey, Ch., *à Londres*, A.—Nécessaires de toilette, de bureau et de voyage.

1855 Austin, G., *à Dublin*, I.—Nécessaires de toilette.

Palais.

1856 Dewsnap, J., *à Sheffield, York*, A.—Coffre et coffrets.

1856*a* Davidson et Wilson, *à Birmingham*, A.—Boîtes écossaises.

1857 Foothorape, Siowell, et Cie, *à Birmingham, Warwick*, A.—Meubles et ornements de salon faits de papier mâché.

1858 Jennens et Bettridge, *à Birmingham, Warwick*, A.—Plateaux, coffrets, écrans, plaques d'album et de buvard, meubles, etc., de papier mâché.

1859 Lane, T., *à Birmingham, Warwick*, A.—Ecrans à pied et à main, plateaux, coffrets, encriers et objets divers faits de papier mâché.

1859*a* MacCullum et Hodson, *à Birmingham, Warwick*, A.—Papier mâché.

P. G. 1859*b* Mechi, J.-J., *à Londres*, A.—Appareil de toilette, etc.

* Perry, J., et Cie.—Encriers. (Voir cl. 15.)

1860 Spiers et fils, *à Oxford*, A.—Ecrans à pied et à main, coffrets, plateaux, objets de fantaisie faits de papier mâché.

P. 1861 Turley, R., *à Birmingham, Warwick*, A.—Objets divers faits de papier mâché.

1862 Smith, W. et A., *à Birmingham*, A.—Boîtes écossaises.

Palais gallery.

Section 10. *Dressing-cases, Inkstands, Fancy Articles ornamented with Ivory, &c.*

1854 Asprey, Charles, 166 *Bond-street.* Dressing, writing, and travelling cases. 1524 P. G.

1855 Austin, G., 6 *Saint Andrew's-street, Dublin.* Dressing-cases. 3084

1856 Dewsnap, J., *St. Thomas-street, Sheffield.* Cabinet cases. 3085

1856*a* Davidson and Wilson, *Birmingham.* Scotch boxes. 3076

1857 Foothorape, Siowell, and Company, *Church-street, Birmingham.* Papier maché goods. 3086

1858 Jennens and Bettridge, *Halkin-street West, Belgrave-square, London, and at Birmingham.* Papier maché articles, &c. 3087

1859 Lane, T., *Great Hampton-street, Birmingham.* Papier maché goods. 3088

1859*a* MacCullum and Hodson, *Birmingham.* Papier maché 3093

1859*b* Mechi, J. J., *Leadenhall-street, London.* Dressing cases, &c. 1541 P.

* Perry, J., and Co. Inkstands. (See cl. 15.) 3092

1860 Spiers and Son, *High-street, Oxford.* Decorated papier maché. 3089

1861 Turley, R., *Summer-lane, Birmingham.* Papier maché goods. 3090 P.

1862 Smith, W. and A., *Charlotte-street, Birmingham.*—Scotch boxes; snuff boxes. 3074

11e Section. *Objets de Gaînerie et de Maroquinerie, de Cartonnage, de Vannerie et de Sparterie fine.*

1866 De la Rue et Cie, *à Londres*, A.—Papiers à lettres façonnés. Papiers de fantaisie. Enveloppes de lettres. Cartonnages. Nécessaires de bureau. Cartes à jouer, et tous articles de papeterie.

P. G. 1867 Leuchars, W., *à Londres*, A.—Sacs et trousses de voyage. Nécessaires de toilette, de bureau et de voyage.

1868 Mossman, W., *à Londres*, A.—Papiers de fantaisie, dorés et argentés. Papiers-dentelle.

A. E. 1869 Pollard, G., *à Londres*, A.—Enveloppes de lettres.

1870 Smith, T.-J et J., *à Londres*, A.—Papier métallique. Agendas, carnets de poche, boites-papeteries de voyage, et autres objets de maroquin.

P. G. 1871 Stocken, C., *à Londres*, A.—Nécessaires de toilette

1872 Waterlow et fils, *à Londres*, A.—Boîtes dites *papeteries* et nécessaires de bureau de maroquin. Papiers à lettres, plumes d'or et toute espèce d'objets de papeterie. (Voir cl. 6 et 26.)

1873 West, E., *à Londres*, A.—Nécessaires de toilette.

Section 11. *Sheaths and Manufactures in Morocco-leather and Cardboard, Basketwork, &c.*

1866 De la Rue and Company, 110 *Bunhill-row, London.* Stationery, plain and fancy. 1019

1867 Leuchars, W., 38 *Piccadilly, London.* Dressing and writing cases. 3105 P. G.

1868 Mossman, W., 23 *Penton-street, Pentonville, London.* Paper. 1024

1869 Pollard, G., *London.* Envelopes. A. E.

1870 Smith, T. J. and J., 83 *Queen-street, Cheapside, London.* Writing cases, &c. 3106

1871 Stocken, C., 53 *Regent-street, London.* Dressing cases, &c. 3107 P. G.

1872 Waterlow and Sons, *London.* Morocco writing cases and desks; letter paper, gold pens, and all kinds of stationery articles. (See cl. 6 and 26.) 1035

1873 West, E., *St. James-street, London.*—Dressing-cases.

12e Section. *Objets de Bimbeloterie; Poupées et Jouets; Figures de cire et figurines; jeux de toute espèce.*

1875 Montanari, Mme Augusta, *à Londres*, A.—Poupées de cire habillées. Cire préparée de façon à resister à la température des pays chauds et à pouvoir être lavée avec de l'eau alcaline.

1876 Montanari, Nap., *à Londres*, A.—Figurines de cire représentant des Indiens de l'Amérique dn Nord et des Mexicains.

1877 Montanari, R., *à Londres*, A.—Poupées de linge habillées.

1878 Spurin, E.-C., *à Londres*, A.—Jouets. Modèles et poupées.

Palais Gallery.

Section 12. *Toys, Dolls, Wax Figures; Games of all Kinds.*

1875 Montanari, Madame Augusta, *London.* Wax dolls, dressed. Prepared wax for hot countries, and which may be washed in alkaline water.

1876 Montanari, Nap., 13 *Charles-street, Soho-square, London.* Wax models, &c. 3120

1877 Montanari, R., *London.* Linen dolls, dressed. 3120

1878 Spurin, E. C., 37 *New Bond-street.* Toys. 3118

Palais Gallery.

26e CLASSE.

Dessin et Plastique appliqués à l'Industrie, Imprimiere en caracteres et en taille-douce, Photographie, etc.

CLASS XXVI.

Class 26. Designs, Letter-press, Photography.

Drawing and Modelling applied to Industry, Letter-press and Copper-plate Printing, Photography.

1re Section. *Ecriture, Dessin et Peinture.*

1885 Bell, Al.-M., *à Edimbourg*, E.—Système de sténographie.

1886 Dawn, W., *à Londres*, A.—Dessins pour plaids et tissus de nouveauté.

1887 Driver, Ch.-H., *à Londres*, A.—Manuscrit sur vélin enluminé dans le style des anciens missels.

1888 Gruner, L., *à Londres*, A.—Dessins pour le décoration. Epreuves en lithochromie.

1890 Harvey, J.-K., *à Londres*, A.—Dessins pour tapis.

1891 Heald. B, *à Nottingham*, A.—Dessins pour dentelles à la mécanique, pour guipures, soieries et velours.

1892 Leighton, J., *à Londres*, A.—Dessins, aquarelles et gravures sur différentes matières, pour publications illustrées.

1893 Newman, James, *à Londres*, A.—Couleurs, pinceaux, toiles et autres objets à l'usage des artistes. A. E.

1894 Yates, H.-T., *à Nottingham*, A.—Dessins pour la lithographie.

1895 Underhill, R., *à Birmingham*, A.—Peinture à l'huile.

Palais Gallery. . E. . G.

Section 1. *Writing, Drawing, and Painting.*

1885 Bell, Alex. Melville, 13 *Charlotte-street, Edinburgh.* Stenography. 3149

1886 Dawn, W., 10 *Little Knight Ryder-street, London.* Designs for silk and worsted goods. 3132

1887 Driver, Charles H., 52 *Winchester-street, Pimlico, London.* Illumination in the old missal style. 3133

1888 Gruner, L., 12 *Fitzroy-square, London.* Decorative drawings. 3137

1890 Harvey, J. K., 25 *Ely-place, Holborn, London.* Designs for textile fabries. 3138

1891 Heald, B., *Nottingham.* Designs for lace. 3135

1892 Leighton, J., 8 *Lidlington-place, Harrington-square, London.* Designs and drawings. 3139

1893 Newman, James, 24 *Soho-square, London.* Artists' materials. 1070 A. E.

1894 Yates, H. T., *Nottingham.* Designs. 3136

1895 Underhill, R., *Birmingham.* Oil painting. 3140 P. G.

Palais Gallery.

2e Section. *Lithographie, Autographie et Gravure sur pierre.*

1897 Aresti, J., *à Londres*, A.—Lithographies d'après un nouveau procédé.

1898 Baxter, G., *à Londres*, A.—Couleurs à l'huile pour impression de peintures.

1899 Brooks, V., *à Londres*, A.—Lithographies.

1900 Day, W., et fils, *à Londres*, A.—Lithographies.

1901 Dickes, W., *à Londres*, A.—Impressions de couleur à très bon marché, au moyen de planche de bois et d'acier, pour les éditions populaires illustrées.

1902 Hanhart, M. et N., *à Londres*, A.—Lithographies noires, teintées, coloriées.

1903 Hullmandel et Walton, *à Londres*, A.—Lithographies en noir et en couleur.

* Rowney, G., et Cie. Lithographies. (Voir cl. 10.)

1904 Underwood, T., *à Birmingham, Warwick*, A.—Impressions chromo-lithographiques.

* Waterlow et fils.—Epreuves de chromo-lithographie. (Voir cl. 6 et cl. 25.)

1905 Wyatt, M.-D., *à Londres.* — Epreuves lithographiques.

Palais Gallery.

Section 2. *Lithography, Autography, and Stone-engraving.*

1897 Aresti, J., 61 *Greek-street, London.* Peculiar process in lithography. 3147

1898 Baxter, George, 11 *Northampton-square, London.* Pictures printed by patent process. 3131

1899 Brooks, Vincent, *King-street, Covent-garden, London.* Lithography. 3150

1900 Day, William, and Son, 17 *Gate-street, Lincoln's-inn-fields, London.* Lithography. 3151

1901 Dickes, William, 5 *Old Fish-street, London.* Lithography. 3152

1902 Hanhart, M. and N, 64 *Charlotte-street, Fitzroy-square, London.* Lithography. 3153

1903 Hullmandel and Walton, 51 *Great Marlborough-street, London.* Lithography. 3154

* Rowney, G. & Co. Lithography. (See cl. 10.) 3155

1904 Underwood, T., *Union-passage, Birmingham.* Chromo-lithographic prints. 3156

* Waterlow and Sons. Chromo-lithography. (See cl. 6 and 25.) 3157

1905 Wyatt, M. D., *Guildford-street, Russell-square, London.* Lithography. 315

Palais Gallery.

3e Section. *Gravure sur métal et sur bois.*

Palais gallery.

1910 Baselie, W., *à Londres*, A. — Cartes de viste d'adresse; cartes à jouer.

1911 Bishop, J., *à Londres*, A.—Gravures exécutées par un mouvement d'horloge, afin d'en empêcher la contrefaçon.

1912 Colnaghi, D., *à Londres*, A.—Gravures.

1915 Graves et Cie, *à Londres*, A.—Gravures.

1916 Hall et Virtue, *à Londres*, A.—Gravures.

* L'Union des Arts, *à Londres*, A.—Gravures. (Voir cl. 17.)

1917 MacQueen, W. H., *à Londres*, A.—Imprimerie en taille-douce.

4e Section. *Photographie.*

Palais gallery.

1920 Bannister, F. W., *à Peebles*, E.—Epreuves photographiques.

1921 Beauford, R., *Ross, Herefordshire*, A. — Epreuves photographiques.

1922 Claudet, J.-Ant.-Fr., *à Londres*, A. — Epreuves. daguerriennes pour le stéréoscope et autres épreuves. Stéréoscopes perfectionnés.

1923 Cundall, Joseph, *à Londres*, A.—Epreuves photographiques.

1924 De La Motte, Philip-H., *à Londres*, A.—Epreuves photographiques.

1925 Griffiths, John, *à Londres*, A.—Plaques de daguerréotype; collodion, talbotypes et autres procédés d'héliographie.

1926 Hely, Alfred A., *à Londres*, A.—Epreuves photographiques.

1926*a* Kilburn, W. E., *à Londres*, A.—Epreuves photographiques.

1927 Lane, J., *à Londres*, A.—Epreuves photographiques coloriées.

1928 Le Bean, T., *à Londres*, A.—Epreuves photographiques coloriées.

1929 Lock, R., *à Londres*, A. — Epreuves photographiques coloriées.

1930 Mayall, J.-E., *à Londres*, A.— Epreuves photographiques.

1931 Miers, W.-J., *à Londres*, A.—Appareils et épreuves de photographie.

1931*a* Montezon, Count, *à Londres*, A.—Photographie.

1932 Robertson, J., *à Constantinople, Turquie.*—Epreuves photographiques.

1933 Ross et Thomson, *à Edimbourg*, E.—Epreuves de photographie.

1934 Societe photographique de Londres, *à Londres*, A.—Epreuves photographiques.

1935 Thompson, C. Thurston, *à Londres*, A.—Epreuves photographiques.

1936 Turner, Benjamin-B., *à Londres*, A.—Epreuves photographiques sur papier.

1937 White, Henry, *à Londres*, A.—Epreuves photographiques.

1938 Williams, T.-R., *à Londres*, A.—Epreuvres photographiques sur papier.

5e Section. *Stéréotomie et Plastique.*

P. 1939 Carew, J. E., *à Londres*, A.—Bas-relief en plâtre.

6e Section. *Moulage et Estampage.*

P. 1946 Hollins, P., *à Birmingham, Warwick*, A.—Groupe de sculpture en plâtre, *l'Aurore et Zéphire.*

Section 3. *Engraving on Metal or Wood.*

Palais gallery.

1910 Baselie, William, 2 *Mayfield-place, Kensington, London.* Surface colour printing. 3148

1911 Bishop, J., 4 *North Audley-street, London.* Engraving by clockwork. 3168

1912 Colnaghi, Dominic, 12 *Pall Mall East, London.* Plate printiug by M'Queen and J. Brooker. 3170

1915 Graves and Company, 6 *Pall Mall, London.* Plate printing by John Dixon, Thomas Ross, R. Holgate, and B. M'Queen. 3171

1916 Hall and Virtue, 4 *Lancaster-place.* Plate printing of engravings in Royal Gallery of Arts. 3172

* Art Union of London. Engravings. (See cl. 17.) 3173

1917 MacQueen, W. H., 184 *Tottenham-court-road, London.* Copper-plate printing. 3174

Section 4. *Photography.*

Palais gallery.

1920 Bannister, F. W., *Peebles, Scotland.* Photographs.

1921 Beauford, R., *Ross, Herefordshire.* Photography. 3195

1922 Claudet, Antoine, 107 *Regent-street, London.* Photographs and stereoscopic portraits. 3180

1923 Cundall, Joseph, 168 *New Bond-street, London.* Photographs. 3181

1924 De la Motte, Philip H., *Crystal Palace, near London.* Photographs. 3182

1925 Griffiths, John, 2 *Reeves-terrace, Mile-end-road, London.* Daguerreotypes, Talbotypes, collodion, and other processes. 3183

1926 Hely, Alfred A., 296 *Oxford-street, London.* Improvements in viewing photographs. 3184

1926*a* Kilburn, W. E., *Regent-street, London.* — Photography.

1927 Lane, J., 54 *Hatfield-street, Blackfriars, London.* Photographs coloured from the back. 3196*a*

1928 Le Bean, Timothy, 8 *London-terrace, Hackney-road, London.* Photographic pictures. 3185

1929 Lock, R., 178 *Regent-street, London.* Photographic pictures. 3186

1930 Mayall, J. E. 224 *Regent-street, London.* Photographs. 3187

1931 Miers, W. J., 15 *Lamb's Conduit-passage, Red Lion-square, London.* Photographs and apparatus. 3188

1931*a* Montezon, Count, 28 *George-street, Hanover-square, London.* Photographs. 3196 *b*

1932 Robertson, J., *Constantinople*, per Mr. Paddy, of 21 *Southampton-row, London.* Photographs. 3190

1933 Ross and Thomson, *Edinburgh.* Photography. 3196

1934 Photographic Society of London (Roger Fenton, Secretary), *London.* Photographs. 3189

1935 Thompson, C. Thurston, 1 *Campden Hill-terrace, Kensington, London.* Photographs. 3191

1936 Turner, Benjamin B., 31 *Haymarket, London.* Photographic pictures. 3192

1937 White, Henry, 7 *Southampton-street, Bloomsbury, London.* Photographs. 3193

1938 Williams, Thomas R., 236 *Regent-street, London.* Photographic pictures. 3194

Section 5. *Stereotomy and Plastic Art.*

1939 Carew, J. E., 40 *Cambridge-street, Hyde Park, London.* Bas-relief in plaster. P.

Section 6. *Moulds and Stamps.*

1946 Hollins, Peter, *Great Hampton-street, Birmingham.* Sculpture. 2764 P.

7e Section. *Imprimerie.*

1950 Austin, S., *à Hertford, Herts.*—Livres imprimés en langues orientales; reliures.

1951 Bedford, Francis, *à Londres.*—Livres.

1952 Besley, Robert et Cie, *à Londres*, A.—Série complète des types modernes de caractères d'imprimerie.

1952a Black, J. et C., *à Edimbourg.*—Editions de Walter Scott.

1953 Bohn, Henry George, *à Londres*, A.—Livres imprimés.

1954 Bradbury et Evans, *à Londres*, A.—Impressions et gravures.

1955 Caslon, H.-W., et Cie, *à Londres*, A.—Caractères d'imprimerie.

1955a Chapman et Hall, *à Londres.*—Echantillons des œuvres de Dickens et Thackeray. Journal de Dessin, Atlas et œuvres illustrées.

1956 Clowes, W., et fils, *à Londres*, A.—Livres imprimés.

1957 Cole, Henry, *à Londres*, A.—Application du procédé de la stéréotypie à la reproduction des gravures sur bois de l'œuvre d'Albert Durer la *Petite Passion.*

1957a Figgins, Vincent et James, *à Londres*, A.—Caractères d'imprimerie. Réimpression du premier livre imprimé par Caxton en Angleterre, The Game of the Chesse.

1958 Harris, John, *à Londres*, A.—Fac simile de livres anciens.

1959 Hughes, W., *à Manchester, Lancastre*, A.—Typographe.

1960 King, J.-H., et Cie, *à Londres*, A.—Caractères d'imprimerie en matière très dure faits à la mécanique. Caractères typographiques pour la musique.

1960a Longman et Cie, *à Londres.*—Moore's "Irish Melodies," illustrées par Maclise, et autres livres.

1961 Daly, Mlle.—Le Journal le "Times" de 1800 et de 1855.

1962 Meir, R., *à Glasgow*, E.—Impressions faites au moyen de planches de gutta-percha. Encre d'imprimerie.

1963 Reed et Pardon, *à Londres*, A.—Livres imprimés.

1964 Toovey, T., *à Londres*, A.—Breviaires, modèles d'imprimerie.

1965 Tyler et Manning, *à Londres*, A.—Bible enluminée.

1965a Van Voorst, I., *à Londres*, A.—Livres de l'histoire naturelle.

1966 Watts, W.-M., *à Londres*, A.—Caractères orientaux et autres.

1967 Whittingham, *à Londres.*—Editions de prières de l'Eglise d'Angleterre, exposées avec M. Riviere, N° 1974.

Section 7. *Printing.*

1950 Austin, Steph., *Hertford.* Books printed in oriental languages; binding.

1951 Bedford, Francis, *Eccleston-terrace.* Books. 3216

1952 Besley, Robert, and Company, *Fann-street, Aldersgate-street, London.* Printing type. 3217

1952a Black, J. and C., *Edinburgh.* Editions of Walter Scott's works, and other books. 3228*a*

1953 Bohn, Henry George, 4, 5, and 6, *York-street, Covent-garden, London.* Printed books. 3218

1954 Bradbury and Evans, *Whitefriars, London.* Printing and engraving. 3219

1955 Caslon, H. W., and Company, *Chiswell-street, London.* Types. 3220

1955a Chapman and Hall, *London.* Specimens of Dickens and Thackeray. Journal of Design, with Atlases and illustrated works.

1956 Clowes, W., and Sons, *Duke-street, Stamford street, Blackfriars, London.* Books. 3221

1957 Cole, Henry, C.B., *Marlborough House, London.* Printing from stereotype casts. 3222

1957a Figgins, Vincent and James, 17 *and* 18, *West Smithfield, London.* Specimens of types. Restoration of Caxton's first book printed in England, The Game of the Chesse

1958 Harris, John, 34 *Gloucester-place, Kentish Town.* Fac-similes of early printed books. 3224

1959 Hughes, W., *Blind Asylum, Old Trafford, Manchester.* Typograph. 3226

1960 King, J. H., and Company, 38A *Liquorpond-street, London.* Types. 3227

1960a Longman and Company, *Paternoster-row, London.* Maclise's Moore's "Irish Melodies." Encyclopedias, &c. 3228

1961 Daly, Miss. The "Times" newspaper of 1800 and 1855.

1962 Muir, R., 4 *Dunlop-street, Glasgow.* Printing from gutta percha, &c. 3229

1963 Reed and Pardon, *Paternoster-row, London.* Typography. 3230

1964 Toovey, T., *Piecadilly, London.* Breviaries as specimens of printing.

1965 Tyler and Manning, *Bolt-court, Fleet-street, London.* Pictorial Bible. 3232

1965a Van Voorst, I., *London.* Works on Natural History.

1966 Watts, W. M., *Crown-court, Temple-bar, London.* Oriental and other types. 3234

1967 Whittingham, *London.* Editions of the Prayers of the Church of England, exhibited with M. Riviere, No. 1974. 3236

Palais Gallery.

8e Section. *Reliure.*

1970 Clements, John, *à Londres*, A.—Reliures.

1971 Eeles et fils, *à Londres*, A.—Reliure de peau et de tissu de coton doré et gaufré à la mécanique.

1972 Holloway, M.-M., *à Londres*, A.—Livres reliés.

1972a Lawson et Cie, *à Londres*, A.—Impressions et gravures pour exemples d'encre d'imprimerie.

1973 Leighton fils et Hodge, *à Londres*, A.—Reliures de maroquin, de toile et d'autres matières, faites en partie à la mécanique.

1974 Riviere, R., *à Londres*, A.—Reliures.

1975 Slade, F., *à Londres*, A.—Reliures.

1976 Smith, J., et Cie, *à Londres*, A.—Registres; grands-livres.

Palais Gallery.

Section 8. *Bookbinding of every description.*

1970 Clements, John, 21 *Little Pulteney-street, Golden-square, London.* Bookbinding. 3245

1971 Eeles and Son, 22 *Cursitor-street, London.* Bookbinding. 3246

1972 Holloway, M. M., 25 *Bedford-street, Covent Garden, London.* Bookbinding. 3250

1972a Lawson and Company, *London.* Impressions and plates given as samples of printing ink.

1973 Leighton, Son, and Hodge, 13 *Shoe-lane, London.* Bookbinding. 3247

1974 Riviere, R., 28 *Great Queen-street, London.* Bookbinding. 3249

1975 Slade, F., *London.* Binding.

1976 Smith, J., and Company, *London.* Account-books, &c. 1033

A. E.

Palais Gallery.

P. G. | * Waterlow et fils.—Registres; grands-livres et livres de compte. (Voir cl. 6 et 25.)
P. G. | 1976a Van Voorst, *à Londres*, A.—Yarrell's "Fishes." "The Vicar of Wakefield," illustré par Mulready, etc.
P. 1977 Wilson, J.-N., *à Londres*, A.—Toile de coton pour la reliure.

* Waterlow and Sons, *London*. Day-books, ledgers, and account-books. (See cl. 6 and 25.) 1035
1976a Van Voorst, *London*. Yarrell's "Fishes," Mulready's "Vicar of Wakefield," and other works. 3233 | P. G.
1977 Wilson, J. N., 128 *St. John-street, London*. Cloth for bookbinding. 3248 | P.

27e CLASSE.

Fabrication d'Instruments de Musique.

1e Section. *Instruments à vent non métalliques, en bois, en corne, en ivoire, en os, en coquillages, en cuir, etc.*

2e Section. *Instruments à vent métalliques.*

3e Section. *Instruments à vent à clavier.*

P. | 1984 Scates, J., *à Dublin*, I.—*Concertinas.*
P. | 1985 Bevington et fils, *à Londres*, A.—Orgue d'église.

4e Section. *Instruments à cordes sans clavier.*

5e Section. *Instruments à corde, à clavier.*

1989 Erard, S. et P., *à Londres*, A.—Pianos, harpe.
1990 Marsh et Steedman, *à Londres*, A.—Piano.
1991 Marchant, W., *à Londres*, A.—Piano.
1992 Luff, G., et fils, *à Londres*, A.—Piano.
1993 Levesque, Edmeades et Cie, *à Londres*, A.—Piano.
Palais. 1995 Jones, J. Champion, *à Londres*, A.—Piano double.
1996 Hughes et Denham, *à Londres*, A.—Piano de construction nouvelle.
1997 Hopkinson, J. et J., *à Londres*, A.—Pianos ordinaires; grand piano perfectionné.
1998 Gibbs, John, *à Londres*, A.—Piano.
1999 Cadby, Charles, *à Londres*, A.—Piano.
2000 Smith, W. S., *à Londres*, A.—Piano.
2001 Murphy, George, *à Londres*, A.—Pianos.
2002 Nicole, Adolphe, *à Londres*, A.—Instruments de musique.

6e Section. *Instruments divers à percussion ou à frottement.*

7e Section. *Instruments automatiques.*

8e Section. *Fabrications élémentaires et accessoires.*

P. C. 2007 Church, G., *à Bristol, Somerset*, A.—Appuie-main pour piano.
Palais. 2008 Greaves, Edward, *à Sheffield, York*, A.—Forge propre à la fabrication des instruments de musique.
2009 Scholefield, Daniel, *à Huddersfield, York*, A.—Métronomes de tout genre. Pupitre de musique servant d'échiquier, de table à écrire, de casier, etc.
2011 Walker, T., *à Sheffield, York*, A.—Forge propre à la fabrication des instruments de musique.

CLASS XXVII.

Manufacture of Musical Instruments.

Section 1. *Wind Instruments in Wood, Horn, Ivory, Bone, Shell, Leather, &c.*

Section 2. *Metal Wind Instruments.*

Section 3. *Wind Instruments with Key-boards.*

1984 Scates, J., 26 *College-green, Dublin*. Concertinas. 3263
1985 Bevington and Sons, 48 *Greek-street, Soho-square, London*. Organ. 3261 | P.

Section 4. *Stringed Instruments without Keyboards.*

Section 5. *Stringed Instruments with Keyboards.*

1989 Erard, S. and P., 18 *Great Marlborough-street, London*. Pianofortes and harps. 3299
1990 Marsh and Steedman, 42 *New Bond-street, London*. Pianoforte. 3295
1991 Marchant, W., *Stamford-road, De Beauvoir-square, Kingsland, London*. Pianofortes. 3294
1992 Luff, G., and Son, 103 *Great Russell-street, Bloomsbury, London*. Pianofortes. 3293
1993 Levesque, Edmeades, and Company, 40 *Cheapside, London*. Pianofortes. 3292
1995 Jones, John Champion, 21 *Soho-square, London*. Double piano. 3290 | Palais.
1996 Hughes and Denham, 87 *Aldersgate-street, London*. Patent pianoforte. 3289
1997 Hopkinson, J. and J., 18 *Soho-square, London*. Pianofortes. 3218
1998 Gibbs, John, 1 *Bowyer-place, Camberwell, London*. Pianofortes. 3287
1999 Cadby, Charles, 38 *Liquorpond-street, London*. Pianofortes. 3286
2000 Smith, W. S., *London*. Pianoforte.
2001 Murphy, George, *Albert-street, Camden-road, London*. Pianofortes. 3296
2002 Nicole, Adolphe, 80 *Dean-street, Soho-square, London*. Musical instrument. 3297

Section 6. *Pulsatile Instruments.*

Section 7. *Automaton Instruments.*

Section 8. *Manufactured Articles and Accessories.*

2007 Church, G., 8 *Byron-place, Bristol*. Wrist supporter for piano. 3330 | P. G.
2008 Greaves, Edward, *South-street, Sheffield*. Music smithery. 3331
2009 Scholefield, Daniel, *Huddersfield*. A small instrument for measuring music. 3332 | Palais.
2011 Walker Thomas, *Hanover-street, Sheffield*. Music smithery. 3334

FINE ARTS.

REPORT on the ARRANGEMENT of the PICTURES, &c., contributed by GREAT BRITAIN and IRELAND to the PARIS UNIVERSAL EXHIBITION.

HAVING been deputed by the Lords of Her Majesty's Committee of Privy Council for Trade to proceed to Paris to aid Mr. Redgrave with our advice as to the hanging and arranging the Paintings, Architectural Designs, and Engravings contributed by the Artists of the United Kingdom to the Paris Universal Exhibition, we beg to submit the following Report of our proceedings:—

On our arrival in Paris, we found that a long side hall of the main floor of the "Palais des Beaux-Arts" had been appropriated to the British Oil Pictures, and an upper gallery, on the same side of the building, to Water-colour Paintings, Architectural Designs, and Engravings.

This appropriation has been made partly because the British works were mostly of a cabinet size, and partly because the allotted space was that part of the building the farthest possible removed from apprehended danger by fire; which danger is, however, now greatly abated by the increased precautions adopted by the French Government.

The space allotted in the lower hall to the Oil Pictures is well lighted, and sufficiently low to prevent the necessity of hanging the works at a great elevation; it also affords the opportunity for all the works of this kind to hang in one continuity. The space, however, presented many obstacles to an agreeable arrangement of the pictures; it was broken into short lengths by numerous openings and doors, and interrupted by many projections.

The light and space in the upper gallery provided for the Water-colour Paintings, the Architectural Designs, and the Engravings, are quite unobjectionable.

There were, however, other difficulties to be surmounted in the prosecution of our labours. It might have been desirable to adopt an alphabetic arrangement, and to hang all the works of each Artist in close proximity; but this was found to be wholly impracticable, not only from the causes before mentioned—the divided nature of the space, but more especially from the extreme irregularity in the arrival of the works, many of which were not deposited in the building until the last week in April, while others by the same Artists had already been placed on the walls. This irregularity arose from the circumstance of the varied localities in England whence the pictures were obtained from the various proprietors.

Notwithstanding, however, the hindrances and obstacles, we trust that we may safely report that a very satisfactory arrangement has been made of all the works intrusted to us; that all are well seen; that the space allotted to British Art has been occupied with the least possible loss of room; and the whole completed and in order, so that nothing on our part prevented the opening of the "Exhibition of Beaux-Arts" on the first of May, had other circumstances permitted the adherence to this date.

It has long been felt desirable to exhibit a suitable collection of British Art on the Continent, where hitherto the works of the British School have been but little known. While we regret that the date determined by the Decree of the French Imperial Commission has prevented the exhibition of the works of many of our most eminent artists lately deceased, we still venture to believe that the present collection will redound to the honour of British Art.

At the same time, impressed with the many excellences of the French and other foreign works in this collection, we feel satisfied of the general benefit to art that will arise from the assembled Exhibition. Each will learn from all; many prejudices will gradually be eradicated; and we may trust in future to a better appreciation of one another.

In conclusion, we would venture to hope, that in the event of the British Government, as in the Great Exhibition of 1851, devoting a sum of money to the purchase of rare works contained in the Exhibition, the department of the Fine Arts, now, as a whole, for the first time, combined with industry in a universal Exhibition, may not be excluded from a proper share of consideration.

THOMAS CRESWICK.
HENRY WARREN.
FREDERICK YEATES HURLSTONE.

May 1855.

REPORT on the ARRANGEMENT of the WORKS of SCULPTURE of GREAT BRITAIN and IRELAND in the BEAUX-ARTS EXHIBITION in PARIS in 1855.

To the Lords of the Committee of Privy Council for Trade.

My Lords,

When I arrived in Paris on the 10th of April last, according to your Lordships' request, in order to arrange, in concert with Mr. Redgrave, the Sculpture of the United Kingdom in the Beaux-Arts Department of the Universal Exhibition, its location in the Building was not fixed. One of two situations was offered by the French authorities. We had the option of a portion of the great Hall of French Sculpture combined with that of other nations, or of an apartment rather scanty of both space and light parallel and close to the gallery of British oil-paintings, with which it directly communicated by two doorways.

After some consideration, deeming it, for various reasons, better that we should stand alone, and that our Sculpture should group with the other art-works of Britain, so as to better illustrate her school, with the concurrence of Messrs. Cole and Redgrave, I accepted the latter arrangement from the French authorities, on condition of being allowed to re-colour the walls of the apartment differently, and to make what further special arrangements I thought fit; with the permission also of occupying with statues certain intercolumniations occurring on one side of the gallery of British oil-paintings, and also of placing groups of statues and single statues at certain points down the centre of the same gallery, and of placing busts against the columns on either side of the principal entrances.

The two latter propositions were at first demurred at by the French authorities, but eventually, by their kind permission, they were carried into effect. The staircase to the upper gallery, on the British side, was also granted for the arrangement of busts; in consequence of which I placed on the centre of the first flight of four or five steps facing the entrance a bust of His Majesty Napoleon III. by Mr. Park, and on the centre of the next landing a bronze bust of Her Majesty Queen Victoria, by Mrs. Thornycroft, and a few other busts and two relievi on other parts of the staircase leading to the gallery of British water-colours, engravings and architectural drawing and models; just within which room I placed a case of medals.

The collection contained in the special apartment of British Sculpture consists wholly of works of a poetic character. This room is lighted wholly by a line of upright windows tolerably high up on one side. The two side entrances, one toward either end, and which are opposite to the windows, open into the gallery of British oil-paintings. At first sight this apartment appeared very dark, but I judged that this was greatly owing to the sombre green with which its walls, like those of the rest of the Exhibition, were coloured. However this tint may suit a gallery of paintings where the wall is much covered, it does not appear calculated for a Sculpture-room, where so small a portion is hidden. Moreover its effect is harsh and cold, and it casts livid reflections on the statues, where cheering ones are more desirable; and these evils are enhanced where the light is scanty. With this impression, I judged that a different treatment of colour would do much toward lightening and adapting this apartment for Sculpture. In accordance, the tint of its walls was changed to a warm grey, of an atmospheric character, that is, of a nature that retreats from the eye instead of advancing towards it, as do most violent colours, especially those wherein red has the preponderance. Its degree of force was regulated by the requirements of affording sufficient relief to the general colour of the statues in the case in which it was applied, and at the same time of being sufficiently light for their outlines to merge and soften into the background. Too violent a contrast of shade and colour in the background of Sculpture makes the statues look flat and stony, and gives to a marble figure an opaque appearance like plaster, whereas it is to be sought rather so to adjust the tints as to assimilate the effect of plaster to the soft and fleshy character of marble by rounding and melting the edges into the background.

I had accepted the honour of arranging the British Sculpture on this occasion with a hope that such top centre lights and other requisites would have been available that I should have been able to put in execution a cherished plan of mine for greatly enhancing the effect of Sculpture by special arrangements of which much drapery forms a part, but on seeing the best advantages which could be afforded us on this occasion, I at once relinquished as impossible the idea of introducing it in this case, and addressed myself to do the best I could under the circumstances.

In carrying out these arrangements, the Sculpture-room being lighted wholly from one side, opposite the doorways, the wall of which, therefore, appearing very dark on entering the room, I had it coloured much lighter than the other sides of the apartment, so as to make it look the same tint, and to give the room a more cheerful appearance; also there being no proper light under the windows, I placed no works whatever on that side, but left it wholly for passage and for couches and seats placed against it opposite the statues, which are arranged in little more than the opposite half of the room, not more being available as regards light. Between the doors the statues advance to the light in two bays or waves, retreating from

it in the centre. At the ends of the room also the lines of arrangement are waved. A waved line of arrangement was adopted to avoid the abrupt and mutually interfering effect of statues, when numerous and near together, coming at once upon the eye in a straight line. By a waved line, the statues are in turn presented in various views in passing through the room, and each has its front to itself as the spectator comes opposite to it. The works are placed on separate pedestals, of varied height, to meet the requirements of each work. Each work of the forward line may be walked round and seen in various views, and those few only are placed against the wall which present but front views, or require a low angle of light. The waved line afforded the means of accommodating each statue as to its front or the side whence it would receive the most favouring light, and also of adapting the angle of light to its requirement, giving, for instance, a more vertical light to the upright figures, and one more horizontal to those in recumbent positions.

These waves of arrangement left in front certain spaces, which are occupied by Mr. Baily's "Eve at the Fountain," and Mr. Gibson's "Hylas and the Nymphs." Mr. Macdowell's "Reading Girl" occupies also the point of another line that projects into the third space, which was obliged to be so arranged on account of the scantiness of room at that end.

The walls of the Sculpture Room being of a warm grey, the pedestals are covered with a cloth of a full green, as also the couches and seats, and the floor is painted of a dark reddish brown. I could not get it stained.

According to the permission that statues might be arranged in connection with the oil paintings, such works were chosen for the intercolumniations as were in some degree architectural, as Mr. Foley's "Hampden and Selden," which thus form a pair, one on either side of a doorway, entering on the centre of the British Gallery of Oil Paintings. Other statues occupy certain points down the centre of the Gallery. There occur three times in the British part of the Gallery, doorways, opposite each other, being the meeting of four ways. At two of these a symmetrical group of upright statues are placed, back to back, facing the four approaches. "The Concordia," by Mr. Marshall, a figure emblematic of the alliance between France and England, being one of these, and facing the principal entrance from the French side. Such figures were chosen for these groups as lost least by having their backs hidden, and although this arrangement was suggested greatly by the small amount of room at our disposal for Sculpture, yet it did not appear to me that any of the works so placed were injured in effect in consequence. Had, however, the Gallery been wide enough to allow of such arrangement without impeding the free circulation of the visitors, on which much stress was laid by the French authorities, I should have separated the statues in these groups more from each other, and supplied in their common centre a background of drapery, arranged in some simple ornamental form. The third crossway is occupied by Mr. Gibson's "Hunter."

Four other statues, singly, occupy four other points down the centre of the Gallery, opposite doorways existing only on one side of the way, no place in the centre being occupied by a statue except opposite a doorway. "The Houseless Wanderer," by Sir Richard Westmacott, is one of these, and occupies a point in front of one of the entrances to the Sculpture Room.

Six busts are also placed on pedestals, close to the columns of the three principal entrances. The pedestals in this gallery, as also those of the busts on the staircase, are covered with a cloth of a full red.

In all cases tickets have been affixed, with the name of the artist, and the subject, in French and English. On the green pedestals in the Sculpture Room these tickets are of the warm grey of the wall. On the red pedestals, in the Gallery of Paintings, they are green, of the same colour as the wall there, the lettering, in all cases, being in gold.

The Sculpture Room contains thirty-five works, viz., thirty statues, two poetic busts, and three relievi.

The Painting Gallery accommodates twenty-five works of Sculpture, viz., two groups of four statues each, and five single ones down the centre; also six statues in the intercolumniations, and six busts close to the columns.

Arranged on the staircase are ten works, viz., eight busts and two relievi; and in the upper gallery is placed a case of medals.

The examples of Sculpture from the United Kingdom thus amount to seventy-one.

The arrangement of the Sculpture was completed by the 1st of May, with the exception of the non-arrival of two works, which were delayed at Dunkirk, but for which pedestals were ready and fixed.

I beg to add, that I met with the greatest civility and kindness on the part of the French Authorities, and though several of the arrangements we desired differed from their own conceptions, they gave way on each point.

I have the honour to be,
My Lords,
Your Lordships' obedient Servant,
JOHN BELL.

Class 28.
Painting, Engraving, &c.

DIVISION DES BEAUX-ARTS.

CLASSE XXVIII.
PEINTURE, GRAVURE ET LITHOGRAPHIE.

PEINTURE.

ANSDELL, R., 7 *Victoria-road, Kensington.*

734 Le tueur de loups. Appartient à *MM. Graves et Cie.*

735 Bergers rassemblant leurs moutons dans la vallée de Sligiehan, île de Skye. Appartient à *M. H.-W. Eaton.*

736 Chiens de bergers dirigeant des moutons. Appartient à *M. R. Platt.*

ANTHONY, M., 18 *Monmouth-road, Bayswater.*

737 Une vallée; effet du soir. Appartient à *M. E.-A. Butler.*

738 Hêtres et fougères. Appartient à *M. T. Rought.*

ARMITAGE, E., 4 *Grove End-road, St. John's Wood.*

739 La bataille de Meeanee. Appartient à *S. M. la Reine.*

[Le général sir Charles Napier, à la tête de 2,500 hommes de troupes régulières, remporte, le 17 février 1842, sur l'armée Beloutchi, dix fois plus considérable, une victoire complète, qui fait passer les provinces de Sindh sous la domination britannique.]

BOXALL, W., A.R.A., 14 *Welbeck-street.*

740 Portrait de J. Gibson, R.A.

741 Portrait d'une dame.

BROCKY, C., 27 *Berners-street, Oxford-street.*

742 Vénus et Phaon. Appartient à *M. W.-A. Brooks.*

743 Psyehé.

BROOKS, THOMAS, 24 *Campden Grove, Kensington.*

744 Le retour sur soi-même. Appartient à *M. C. Lucas.*

BROWN, F.-M., 1 *Grove Villas, Church End, Finchley.*

745 Un coin de feu anglais en 1854.

746 Chaucer à la cour d'Edouard III. Appartient à *M. R. Dickinson.*

BUCKNER, R., 3A *Cleveland-row.*

747 Portrait du jeune Barkly.

CARPENTER, Mme W., *Musée Britannique.*

748 Portrait d'une dame âgée.

CHALON, J.-J., R.A.

749 Une journée d'été: le Matin. Appartient à *M. A.-E. Chalon.*

750 Une journée d'été: l'Après-midi. Appartient à *M. A.-E. Chalon.*

751 Une journée d'été: le Soir. Appartient à *M. A.-E. Chalon.*

CHALON, A.-E., R.A., *El Retiro, Kensington.*

752 Sérèna. Appartient à *M. A.-E. Chalon.*

[En traversant certaine contrée, Sérèna s'y endort, accablée de fatigue et de chagrin, et à son réveil se trouve entourée d'anthropophages.—*La Reine des Fees.*]

Le paysage par J.-J. Chalon, R.A.

CLINT, A., 1 *Devonshire-street, Portland-place.*

753 Une soirée calme; Galles du Nord. Appartient à *M. J. Scott.*

COLLINS, C., 17 *Hanover-terrace, Regent's Park.*

754 Souvenir de Bethléem.

[Mme de Chantal portant des secours à une pauvre femme en couches, se rappelle la naissance du Christ dans une étable à Bethléem.]

COLOMB, G., *Phœnix Park, Dublin.*

755 La Vallée-Noire (Irlande).

COOKE, E.-W., A.R.A., 9 *Hyde Park-gate South, Kensington.*

756 Rouge et noire. Appartient à *M. W. Wells.*

757 Palais du doge et piazzetta, à Venise. Appartient à *M. S. Christy, M.P.*

758 Lougre français donnant dans la passe de Calais. Appartient à *M. A. Burnand.*

759 La corniche, golfe de Gênes; effet du soir. Appartient à *M. C. Loddiges.*

FINE ARTS DIVISION.

CLASS XXVIII.
PAINTING, ENGRAVING, AND LITHOGRAPHY.

PAINTINGS IN OIL.

ANSDELL, R., 7 *Victoria-road, Kensington.*

734 The Wolf Slayer. The property of *Messrs. Graves & Co.*

735 Sheep Gathering in Glen Sligichan, Isle of Skye. The property of *H. W. Eaton, Esq.*

736 Turning the Drove. The property of *R. Platt, Esq.*

ANTHONY, M., 18 *Monmouth-road, Bayswater.*

737 The Glen at Eve. The property of *E. A. Butler, Esq.*

738 Beeches and Fern. The property of *T. Rought, Esq.*

ARMITAGE, E., 4 *Grove End-road, St. John's Wood.*

739 The Battle of Meeanee. The property of *Her Majesty the Queen.*

[General Sir C. Napier, at the head of 2,500 regular troops, gained, on the 17th February 1842, a complete victory over the Beloutchee army, ten times more numerous, and brought the provinces of Sindh under the dominion of Great Britain.]

BOXALL, W., A.R.A., 14 *Welbeck-street, London.*

740 Portrait of J. Gibson, R.A.

741 Portrait of a Lady.

BROCKY, C., 27 *Berners-street, Oxford-street, London.*

742 Venus and Phaon. The property of *W. A. Brooks, Esq.*

743 Psyehe.

BROOKS, THOMAS, 24 *Campden Grove, Kensington.*

744 The Awakened Conscienee. The property of *C. Lucas, Esq.*

BROWN, F. M., 1 *Grove Villas, Church End, Finchley.*

745 An English Fireside in 1854.

746 Chaucer at the Court of Edward III. The property of *R. Dickinson, Esq.*

BUCKNER, R., 3A *Cleveland-row, London.*

747 Portrait of Master Barkly.

CARPENTER, MRS. W, *British Museum, London.*

748 Portrait of an Old Lady.

CHALON, J. J., R.A.

749 A Summer's Day: Morning. The property of *A. E. Chalon, Esq.*

750 A Summer's Day: Afternoon. The property of *A. E. Chalon, Esq.*

751 A Summer's Day: Evening. The property of *A. E. Chalon, Esq.*

CHALON, A. E., R.A., *El Retiro, Kensington.*

752 Serena. The property of *A. E. Chalon, Esq.*

[In travelling through a certain country, Serena, overcome by fatigue and by grief, falls asleep, and on awaking finds herself surrounded by cannibals.]

The landseape by J. J. CHALON, R.A.

CLINT, A., 1 *Devonshire-street, Portland-place.*

753 A Calm Evening: North Wales. The property of *J. Scott, Esq.*

COLLINS, C., 17 *Hanover-terrace, Regent's Park, London.*

754 A Thought of Bethlehem.

[Madame de Chantal, in paying a charitable visit to a poor woman in childbirth, is reminded of the birth of Christ in the stable at Bethlehem.]

COLOMB, G., *Phœnix Park, Dubli*

755 The Black Valley, Ireland.

COOKE, E. W., 9 *Hyde Park-gate South, Kensing*

756 Rouge et Noire. The property of *W. Wells, Esq.*

757 Dueal Palace and Piazzetta, Veniee. The property of *S. Christy, Esq., M.P.*

758 A French Lugger running into Calais. The property of *A. Burnand, Esq.*

759 Evening on the Corniee, Gulf of Genoa. The property of *C. Loddiges, Esq.*

COOPER, A., R.A., 19 *New Millman-street.*

760 Déroute des troupes de Charles Ier à Marston Moor (1644). Appartient à *M. J. Cressingham.*

761 Chasseurs de daims; Ecosse.

COOPER, T.-S., A.R.A., 2 *Dorset-square, Regent's Park.*

762 Groupe de vaches dans le parc d'Osborne. Appartient à *S. M. la Reine.*

763 Une matinée dans les prairies de Windsor.

COOPER, W., *Crouch End, Hornsey.*

764 Le Christ et la Samaritaine.

["Jésus lui dit: Femme, crois-moi, le temps vient que vous n'adorerez plus le Père, ni sur cette montagne, ni à Jérusalem." —*Evangile selon St. Jean*, ch. 4, v. 21.]

COPE, C. W., R.A., 19 *Hyde Park-gate South, Kensington Gore.*

765 Le roi Lear. Appartient à *M. I.-K. Brunel.*

766 Florence Cope avant dîner.

767 Jeune fille en méditation. Appartient à *M. J. Sheepshanks.*

768 Arrivée du cardinal Wolsey à l'abbaye du Leicester. Appartient à *S. A. R. le prince Albert.*

769 Une mère et son enfant. Appartient à *M. J. Sheepshanks.*

770 Une mère et son enfant. Appartient à *M. J. Sheepshanks.*

CREGAN, M., P.R.H.A., 26 *Kildare-street, Dublin.*

771 Portrait. Appartient à *M. Atkinson jun.*

CRESWICK, T., R.A., *Linden-grove, Bayswater.*

772 Une gorge dans les montagnes du pays de Galles. Appartient au *T. H. sir J. Wigram.*

773 Torrent dans les montagnes d'Ecosse. Appartient à *M. J.-H. Hippisley.*

774 Averses. Appartient à *M. D. Salomons.*

CROSS, J., 27 *Park-lane West, Camden-town.*

775 Richard Ier (Cœur-de-Lion), pardonnant à Bertrand de Gourdon. Appartient à la *Commission royale d'encouragement des Beaux-Arts.*

DANBY, F., A.R.A., *Exmouth, Devonshire.*

776 Calypso pleurant le départ d'Ulysse. Appartient à *Mme E. Gibbons.*

777 Le canon du soir. Appartient à *M. Robert Stephenson, M.P.*

DESANGES, L.-W., 16 *Stratford-place, Oxford-street.*

778 Le roi de France Robert excommunié par le pape Sixte IV pour avoir refusé de répudier la reine Berthe.

DOBSON, W.-C.-T., 5 *Chalcot-villas, Haverstock-hill.*

779 Tobie et l'Ange. Appartient à *M. J. Eden.*

780 Charité de Dorcas. Appartient à *M. L. Pocock.*

DUFFIELD, W., 14 *Bladud's-buildings, Bath.*

781 Fruits. Appartient à *M. E.-E. Antrobus.*

DYCE, W., R.A., *The Oaks, Norwood, Surrey.*

782 La Vierge et l'Enfant-Jésus. Appartient à *S. A. R. le prince Albert.*

783 Le roi Joas lançant la flèche de la délivrance. Appartient à *M. S. Walker.*

784 Rencontre de Jacob et de Rachel. Appartient à *M. Felix Pryor.*

EASTLAKE, sir C.-L., président de l'Académie royale de Londres, 7 *Fitzroy-square.*

785 Le Spartiate Isadas repoussant les Thébains. Appartient au *duc de Devonshire, K.G.*

[Sparte était en imminent danger d'être prise, lors qu'Isadas, fils de Phœbidas, s'élança nu du bain sur le champ de bataille, armé seulement d'une epee et d'une lance. Sa jeunesse et sa beauté, joints à ce qu'il était entièrement privé d'armes défensives, inspirèrent aux assaillants aussi bien qu'aux défenseurs de la ville l'idée qu'il devait être quelque divinité gardienne, peut-être Castor: son courage d'ailleurs completait l'illusion; il abattait un homme à chaque coup, et quoique partout engagé là où le danger était le plus pressant, il ne recevait aucune blessure.]

786 Pèlerins arrivant en vue de Rome. Appartient à *M. G. Vivian.*

787 La Svegliarina. Appartient au *très-honorable lord-maire.*

788 François de Carrare, seigneur de Padoue, échappe à la poursuite de Galeazzo Visconti, due de Milan. Appartient à *M. J. Morrison.*

EDDIS, E.-U., 57 *Harley-street, Cavendish-square.*

789 Noémi et ses belles-filles Ruth et Orpha. Appartient à *lord Overstone.*

COOPER, A., R.A., 19 *New Millman-street, London.*

760 The Rout at Marston Moor. The property of *J. Cressingham, Esq.*

761 Deer Stalkers.

COOPER, T. S., A.R.A., 2 *Dorset-square, Regent's Park.*

762 A Group at Osborne. The property of *Her Majesty the Queen.*

763 A Morning in the Windsor Meadows.

COOPER, W., *Crouch End, Hornsey.*

764 Christ at the Well of Samaria.

["Jesus saith unto her, Woman, believe me, the hour cometh, when ye shall neither in this mountain, nor yet at Jerusalem, worship the Father."—*Gospel of St. John*, iv. 21.]

COPE, C. W., R.A., 19 *Hyde Park-gate South, Kensington Gore.*

765 King Lear. The property of *I. K. Brunel, Esq.*

766 Florence Cope at Dinner-time.

767 Maiden Meditation. The property of *J. Sheepshanks, Esq.*

768 Arrival of Cardinal Wolsey at Leicester Abbey. The property of *His Royal Highness Prince Albert.*

769 Mother and Child. The property of *J. Sheepshanks, Esq.*

770 Mother and Child. The property of *J. Sheepshanks, Esq.*

CREGAN, M., P.R.H.A., 26 *Kildare-street, Dublin.*

771 Portrait. The property of *R. Atkinson, Jun., Esq.*

CRESWICK, T., R.A., *Linden-grove, Bayswater.*

772 A Welsh Glen. The property of the Right Hon. *Sir J. Wigram.*

773 A Mountain Torrent. The property of *J. H. Hippisley, Esq.*

774 Passing Showers. The property of *D. Salomons, Esq.*

CROSS, J., 27 *Park-lane West, Camden-town.*

775 Richard I. (Cœur de Lion) forgiving Bertrand de Gourdon. The property of *The Royal Commission for Promoting the Fine Arts.*

DANBY, F., A.R.A., *Exmouth, Devonshire.*

776 Calypso lamenting the departure of Ulysses. The property of *Mrs. E. Gibbons.*

777 The Evening Gun. The property of *Robert Stephenson, Esq., M.P.*

DESANGES, L. W., 16 *Stratford-place, Oxford-street.*

778 The Excommunication of King Robert of France for refusing to divorce his Queen, Bertha, at the command of Pope Sixtus IV.

DOBSON, W. C. T., 5 *Chalcot-villas, Haverstock-hill.*

779 Tobias with Raphael on their Journey to Media. The property of *J. Eden, Esq.*

780 The Charity of Doreas. The property of *L. Pocock, Esq.*

DUFFIELD, W., 14 *Bladud's-buildings, Bath.*

781 Fruit. The property of *E. E. Antrobus, Esq.*

DYCE, W., R.A., *The Oaks, Norwood, Surrey.*

782 The Virgin and Child. The property of *His Royal Highness Prince Albert.*

783 King Joash shooting the Arrow of Deliverance. The property of *S. Walker, Esq.*

784 The Meeting of Jacob and Rachel. The property of *Felix Pryor, Esq.*

EASTLAKE, Sir C. L., P.R.A., 7 *Fitzroy-square, London.*

785 Isadas driving back the Thebans. The property of *The Duke of Devonshire, K.G.*

[Sparta was in imminent danger of being taken, when Isadas, son of Phœbidas, rushed naked from a bath into the battle, armed only with a sword and spear. His youth and beauty, added to his being entirely without defensive arms, inspired both the assailants and defenders with the idea that he was some guardian deity, perhaps Castor: his courage completed the illusion; he struck down a man at every blow, and although everywhere engaged where the danger was most pressing, he received no wound.]

786 Pilgrims arriving in sight of Rome. The property of *G. Vivian, Esq.*

787 La Svegliarina. The property of *The Right Hon. the Lord Mayor.*

788 Escape of Francesco di Carrara, Lord of Padua, from the pursuit of Galeazzo Visconti, Duke of Milan. The property of *J. Morrison, Esq.*

EDDIS, E. U., 57 *Harley-street, Cavendish-square.*

789 Ruth and Orpah. The property of *Lord Overstone.*

Egg, A.-L., A.R.A., *The Elms, Campden-hill, Kensington.*

790 Henriette-Marie de France secourue dans l'infortune par le cardinal de Retz. Appartient à *M. Samuel Ashton.*

791 Buckingham rebuté. Appartient à *M. P. Dudgeon.*

792 La recherche en mariage. de Catherine. Appartient à *M. T. Miller.*

793 Première rencontre de Pierre-le-Grand et de Catherine (future impératrice). Appartient à *M. T. Miller.*

Elmore, A., A.R.A., 31 *Devonshire-street, Portland-place.*

794 Une scène de controverse religieuse sous Louis XIV. Appartient à *M. T. Jackson.*

795 Origine de la querelle des Guelfes et des Gibelins. Appartient à *M. Samuel Ashton.*

796 La novice. Appartient à *M. W. Bashall.*

Foggo, J. et G., 58 *Warren-street, Fitzroy-square.*

797 Mort du roi Edouard III.

[Après un règne d'une splendeur extraordinaire, Edouard tomba, aux approches de la mort, dans un état de langueur et d'impuissance absolue. Il fut abandonné de tout le monde, même d'Alice Pierce, sa favorite. Un moine qui traversait le palais le trouva seul, et sans cette visite inattendue, le roi serait mort sans recevoir les consolations de la religion.]

Frith, W.-P., R.A., 10 *Cambridge-villas, Bayswater.*

798 Pope faisant la cour à lady Mary Wortley Montague. Appartient à *M. S. Oxenham.*

799 Scène tirée de *l'Homme d'un bon naturel*, de Goldsmith. Appartient à *M. J. Sheepshanks.*

800 Scène tirée du *Bourgeois gentilhomme.* Appartient à *M. J. Fairrie.*

Frost, W.-E., A.R.A., 8 *Southampton-street, Fitzroy-square.*

801 Ondine dans une grotte marine. Appartient à *M. R. J. Spiers.*

802 Una entourée de nymphes et de faunes.

[*La Reine des Fées.*]

Appartient à *S. A. R. le prince Albert.*

803 Cupidon trouvé endormi par les nymphes de Diane; sujet tiré d'un sonnet de Milton. Appartient à *S. A. R. le prince Albert.*

Gilbert, A., *Hawthorn-cottage, Queen-street, Hammersmith.*

804 Une soirée calme. Appartient à *M. E.-E. Antrobus.*

Gillies, Mlle M., 6 *Southampton street, Fitzroy-square.*

805 Tête de jeune fille; étude. Appartient à *M. T. Fairbairn.*

Glass, J.-W., 19 *Newman-street, Oxford-street.*

806 Une marche de nuit. Appartient à *M. H.-B. Hope.*

Goodall, F., A.R.A., 4 *Camden-square, Camden-road Villas.*

807 Bal au bénéfice de la veuve. Appartient au *T. H. sir J. Wigram.*

808 Episode des jours heureux de Charles Ier. Appartient à *M. W. Bashall.*

Gordon, sir J.-Watson, R.A. et P.R.S.A., 123 *George-street, Edimbourg.*

809 Portrait de feu le professeur Wilson. Appartient à *M. J. Blackwood.*

810 Le prévôt de Peterhead. Appartient à un *hôpital d'Aberdeen.*

811 Portrait d'une dame.

Grant, F., R.A., 27 *Sussex-place, Regent's-park.*

812 Portrait de Mme Beauclerk.

813 Portrait de lord John Russell, M.P. Appartient à *lord John Russell, M.P.*

814 Rendez-vous de chasse d'Ascot; équipage de S. M. pour la chasse au cerf. Appartient au *comte de Chesterfield.*

815 Portrait de lady Rodney. Appartient à *lord Rodney.*

Gush, W., 15 *Stratford-place.*

816 L'élève.

Hannah, R., 2 *Alfred-place West, Old-Brompton.*

817 La lecture du roman. Appartient à *M. C. Dickens.*

818 Une loge. Appartient à *M. C. Dickens.*

Harding, J.-D., 3 *Abercorn-place, Saint-John's-Wood.*

819 Vue de Fribourg. Appartient à *M. T. Brassey.*

Egg, A. L., A.R.A., *The Elms, Campden-hill, Kensington.*

790 Henrietta Maria in Distress, relieved by Cardinal de Retz. The property of *Samuel Ashton, Esq.*

791 Buckingham rebuffed. The property of *P. Dudgeon, Esq.*

792 The Wooing of Katherine. *Vide* "Taming the Shrew." The property of *T. Miller, Esq.*

793 Peter the Great sees Catherine, his future Empress, for the first time. The property of *T. Miller, Esq.*

Elmore, A., A.R.A., 31 *Devonshire-street, Portland-place, London.*

794 Religious Controversy in the time of Louis the Fourteenth. The property of *T. Jackson, Esq.*

795 Origin of the Guelph and Ghibeline Quarrel. The property of *Samuel Ashton, Esq.*

796 The Noviee. The property of *W. Bashall, Esq.*

Foggo, J. and G., 58 *Warren-street, Fitzroy-square.*

797 Death of King Edward III.

[After a reign of unusual splendour Edward sank into languor and incompetency at the approach of death. Every one, even his favourite Alice Pierce, forsook him. A monk walking through the palace found him alone; but for this accidental visit the king would have died without religious consolation.]

Frith, W. P., R.A., 10 *Cambridge-villas, Bayswater.*

798 Pope making Love to Lady Mary Wortley Montague. The property of *S. Oxenham, Esq.*

799 Scene from Goldsmith's Good-natured Man. The property of *J. Sheepshanks, Esq.*

800 Scene from the Bourgeois Gentilhomme. The property of *J. Fairrie, Esq.*

Frost, W. E., A.R.A., 8 *Southampton-street, Fitzroy-square.*

801 The Sea Cave. The property of *R. J. Spiers, Esq.*

802 Una and Wood Nymphs. The property of *His Royal Highness Prince Albert.*

803 Cupid found sleeping by the Nymphs of Diana; from Milton's sonnet. The property of *His Royal Highness Prince Albert.*

Gilbert, A., *Hawthorn-cottage, Queen-street, Hammersmith.*

804 A Calm Evening. The property of *E.E. Antrobus, Esq.*

Gillies, Miss M., 6 *Southampton-street, Fitzroy-square.*

805 Study of the Head of a Young Girl. The property of *T. Fairbairn, Esq.*

Glass, J. W., 19 *Newman-street, Oxford-street.*

806 The Night March. The property of *H. B. Hope, Esq.*

Goodall, F., A.R.A., 4 *Camden-square, Camden-road Villas, London.*

807 The Widow's Benefit Ball. The property of *Sir J. Wigram.*

808 An Episode of the happier days of Charles I. The property of *W. Bashall, Esq.*

Gordon, Sir J. Watson, R.A., and P.R.S.A., 123 *George-street, Edinburgh.*

809 Portrait of the late Professor Wilson. The property of *J. Blackwood, Esq.*

810 The Provost of Peterhead. The property of the *Merchant Maiden Hospital, Aberdeen.*

811 Portrait of a Lady.

Grant, F., R.A., 27 *Sussex-place, Regent's-park.*

812 Portrait of Mrs. Beauclerk.

813 Portrait of Lord John Russell, M.P. The property of *Lord John Russell, M.P.*

814 Ascot Meet of Her Majesty's Staghounds. The property of *The Earl of Chesterfield.*

815 Portrait of Lady Rodney. The property of *Lord Rodney.*

Gush, W., 15 *Stratford-place, London.*

816 The Student.

Hannah, R., 2 *Alfred-place West, Old Brompton.*

817 The Novel. The property of *C. Dickens, Esq.*

818 The Play. The property of *C. Dickens, Esq*

Harding, J. D., 3 *Abercorn-place, St. John's Wood.*

819 A View of Freiburg. The property of *T. Brassey, Esq.*

HAYTER, sir GEORGE, 33 *Gloucester-place, New-road.*

820 Mariage de Sa Majesté la reine Victoria. Appartient à *S. M. la Reine.*

821 Le jugement de lord Wm. Russell, 1683. Appartient au *due de Bedford.*

HERBERT, J.-R., R.A., 22 *Church-street, Hampstead.*

822 Léar déshéritant Cordelia. Appartient à *M. T. Jackson.*

Lear, Acte I. Scène I.

823 Saint Jean-Baptiste devant Hérode. Appartient à *l'hon. colonel E.-G. Douglas Pennant, M.P.*

["Car Jean dit à Hérode: Il n'est pas légitime à toi de posséder la femme de ton frère."—*Evangile selon St. Marc,* vi. 18.]

HERRICK, P.-S., 21 *Edwards-street, Portman-square.*

824 Le bracelet.

HOLLAND, J., 11 *Osnaburgh-street, Regent's-park.*

825 Rotterdam. Appartient à *M. H. Burton.*

826 La Tamise, en aval de Greenwich. Appartient à *M. J. Coles.*

827 Hôpital de Greenwich.

HOLLINS, J., A.R.A., 47 *Berners-street, Oxford-street.*

828 Pilotes sur la plage de Deal. Appartient à *M. D. Salomons.*

829 Lisa Puccini et Minuccio d'Arezzo.

[*Boccace, 2e journee, 7e nouvelle.*]

830 Shylock, Jessica et Lancelot Gobbo.

[*Le Marchand de Venise.*]

HOOK, J.-C., A.R.A., *Tor Villa, Campden-hill, Kensington.*

831 Bayard recevant chevalier le fils du connétable de Bourbon. Appartient à *M. P.-N. Arrowsmith.*

832 Venise comme on la rêve. Appartient à *lord Northwick.*

HORSLEY, J.-C., *Campden-hill, Kensington.*

833 L'enfance et la vieillesse. Appartient à *M. J. Sheepshanks.*

834 Lady Jane Grey et Roger Ascham. Appartient à *M. J. Hick.*

835 Réunion musicale. Appartient à *M. W. Bashall*

836 Le fidèle ami. Appartient à *M. I.-K. Brunel.*

837 *L'Allegro — Il Penseroso.* — MILTON. Appartient à *S.A.R. le prince Albert.*

HULME, F.-W., 4 *Hereford-square, Old Brompton.*

838 Gorge de Ffos Noddyn, pays de Galles. Appartient à *M. W. Herbert.*

HUNT, W.-H.

839 La lumière du monde. Appartient à *M. T. Combe.*

840 Moutons égarés. Appartient à *M. C.-T. Maud.*

841 Claudio et Isabella. Appartient à *M. L.-A. Egg.*

HURLSTONE, F.-Y., Président de la Société des artistes anglais, 9 *Chester-street, Belgrave-square*

842 La morra (jeu italien). Appartient à *M. H. Bradley.*

843 Le dernier soupir du Maure: adieux de Boabdil à Grenade. Appartient à *sir C. Douglas.*

["Pleure, lui dit sa mère, pleure comme une femme, puisque tu n'as pas su défendre ton royaume comme un homme."]

844 Constance et Arthur. Appartient à *lord Northwick.*

Scène tirée du "Roi Jean," SHAKSPERE.

JOHNSTON, A., 4 *Southampton-street, Fitzroy-square.*

845 Présentation de Flora Macdonald au prince Charles-Edouard. Appartient à *M. Thomas Waite.*

JUTSUM, H., 174 *Edgeware-road, Bayswater.*

846 Une chaumière (montagnes d'Ecosse.) Appartient à *M. T. Earle.*

847 Cours d'eau dans les montagnes d'Ecosse. Appartient à *M. W. Herbert.*

HAYTER, SIR GEORGE, 33 *Gloucester-place, New-road.*

820 The Marriage of Her Majesty Queen Victoria. The property of *Her Majesty the Queen.*

821 The Trial of Lord William Russell. A D. 1683. The property of *The Duke of Bedford.*

HERBERT, J. R., R.A., 22 *Church-street, Hampstead.*

822 Lear disinheriting Cordelia. The property of *M. T. Jackson, Esq.*

LEAR. So young and so untender?
CORDELIA. So young, my Lord, and true.
LEAR. Let it be so:—thy truth then be thy dower.
* * * *
Hence, and avoid my sight!
So be my grave my peace, as here I give
Her father's heart from her!
Cornwall and Albany
With my two daughters' dowers digest the third.
Lear, Act I. Scene 1.

823 St. John the Baptist reproving Herod. The property of *Colonel the Hon. E. G. Douglas Pennant, M.P.*

["For John said to Herod: It is not lawful for thee to have thy brother's wife."—*Gospel of St. Mark,* vi. 18.]

HERRICK, P. S., 21 *Edwards-street, Portman-square.*

824 The Bracelet.

HOLLAND, J., 11 *Osnaburgh-street, Regent's Park.*

825 Rotterdam. The property of *H. Burton, Esq.*

826 The Thames below Greenwich. The property of *J. Coles, Esq.*

827 Greenwich Hospital.

HOLLINS, J., A.R.A., 47 *Berners-street, Oxford-street.*

828 Pilots on Deal Beach. The property of *D. Salomons, Esq.*

829 Lisa Puccini and Minuccio d'Arezzo.

[*Vide* Boccaccio; Giorno X., Novella 7.]

830 Shylock, Jessica, and Lancelot Gobbo.

[*Vide* "Merchant of Venice."]

HOOK, J. C., A.R.A., *Tor Villa, Campden-hill, Kensington.*

831 The Chevalier Bayard Knighting the Infant Son of Constable Bourbon. The property of *P. N. Arrowsmith, Esq.*

832 A Dream of Venice. The property of *Lord Northwick.*

["Si costuma andando attorno in gondola concerti di musiche." —*Sansovino.*]

HORSLEY, J. C., *Campden-hill, Kensington.*

833 Youth and Age. The property of *J. Sheepshanks, Esq.*

834 Lady Jane Grey and Roger Ascham. The property of *J. Hick, Esq.*

835 The Madrigal. The property of *W. Bashall, Esq.*

836 Florence and Boatswain. The property of *I. K. Brunel, Esq.*

837 L'Allegro—Il Penseroso. The property of *His Royal Highness Prince Albert.*

HULME, F. W., 4 *Hereford-square, Old Brompton.*

838 Ffos Noddyn. On the Conway, N. Wales. The property of *W. Herbert, Esq.*

HUNT, W. H., care of *T. Combe, Esq., Oxford.*

839 The Light of the World. The property of *T. Combe, Esq.*

840 Strayed Sheep. The property of *C. T. Maud, Esq.*

841 Claudio and Isabella. The property of *L. A. Egg, Esq.*

HURLSTONE, F. Y., 9 *Chester-street, Belgrave-square.*

842 La Morra – an Italian Game. The property of *H. Bradley, Esq.*

843 The Last Sigh of the Moor: Boabdil's Farewell to Grenada. The property of *Sir C. Douglas.*

["Weep," said his mother, "weep like a woman, since you know not how to defend your kingdom like a man."]

844 Constance and Arthur. The property of *Lord Northwick.*

[*King John: Shakspere.*]

JOHNSTON, A., 4 *Southampton-street, Fitzroy-square.*

845 Introduction of Flora Macdonald to Prince Charles Edward Stuart. The property of *Thos. Waite Esq.*

JUTSUM, H., 174 *Edgeware-road, Bayswater.*

846 A Cottage Home in the Highlands. The property of *J. Earle, Esq.*

847 Moorland Stream. The property of *W. Herbert, Esq.*

Painting, Engraving, &c.

KNIGHT, J.-P., R.A., 2A *James-street, Buckingham-palace.*

843 Les naufrageurs. Appartient à *M. S. Cartwright.*
[Jadis des habitants des côtes éloignées plaçaient des feux sur les brisants pour attirer les navires en détresse, assassinaient les naufragés et pillaient les navires.]

849 Portrait de T. Vaughan. Appartient à *l'Académie royale des arts.*

850 John Knox cherchant à arrêter la violence du peuple exalté par sa prédication éloquente contre l'Eglise romaine; Perth, Ecosse, 1559.

LANCE, GEORGE, 36 *Hart-street, Bloomsbury-square.*

851 La vie et la mort. Appartient à *M. Ch.-T. Maud.*
852 La toque rouge. Appartient à *M. T. Baring,*
853 La coquette du village. Appartient à *M. R. Hemming.*

854 Fruits. Appartient à *M. J. Leech.*

LANDSEER, sir E., R.A., 1 *St. John's-Wood-road.*

855 Islay et Macaw. Appartient à *S. M. la Reine.*

856 Singes brésiliens. Appartient à *S. M. la Reine.*
857 *The Sanctuary.* Appartient à *S. A. R. le prince Albert.*
858 Animaux à la forge. Appartient à *M. Jacob Bell.*
859 Jack en faction Appartient à *M. Sheepshanks.*
860 Le déjeuner (montagnes d'Ecosse). Appartient à *M. J. Sheepshanks.*
861 Le départ du marchand de bestiaux pour le Sud (montagnes d'Ecosse). Appartient à *M. J. Sheepshanks.*
862 Le bélier à l'attache. Appartient à *M. J. Sheepshanks.*

863 Au coin du feu. Appartient à *M. J. Sheepshanks.*

LEE, F.-R., R.A., 15 *Cockspur-street, Pall-mall.*

864 Le braconnier. Appartient à *M. D. Salomons.*
865 L'orage sur un lac.
866 Les eaux argentées.

LESLIE, C.-R., R.A., 2 *Abercorn-place, St. John's Wood.*

867 S. M. la reine Victoria recevant le Saint-Sacrement le jour de son couronnement. Appartient à *S. M. la Reine Victoria.*
868 Catherine et Petruchio. Appartient à *M. J. Sheepshanks.*
869 L'oncle Tobie et la veuve Wadman. Appartient à *M. J. Sheepshanks.*
870 Scène tirée du *Vicaire de Wakefield.* Appartient à *M. T. Miller.*
[" J'aurais dû mentionner l'extrême impolitesse de M. Burchell, qui, pendant ce discours, était assis, la figure tournée du côté du feu, et s'écriait à chaque phrase : *Bague!*"]

871 Sancho-Pança et la duchesse. Appartient *à la Galerie nationale.*

LINNELL, JOHN, *Redstone Wood, Redhill, Surrey.*

872 Chariot sortant des arbres d'une forêt. Appartient à *M. S. Ovenham.*
873 La récolte de l'orge. Appartient à *M. C. Birch.*
874 Un chemin dans les montagnes; Galles du Nord. Appartient à *M. Joseph Gillott.*
875 Le prophète désobéissant.
876 Route dans une forêt.

LINTON, W., 7 *Lodge-place, St. John's Wood.*

877 Les temples de Pœstum.
878 Un jour de gala à Venise.

LUCY, C., *Tudor Lodge, Albert-street, Mornington-road, Regent's Park.*

879 Cromwell au lit de mort de sa fille. Appartient à *M. J. Wallace.*
880 Cromwell prenant la résolution de refuser la couronne. Appartient à *MM. Graves et Cie.*

M'INNES, R., 1 *Clarendon-road, Kensington.*

881 Métastase découvert par Gravina, à Rome. Appartient à *M. S. Christy, M.P.*
[Le savant Gravina fut tellement frappé des talents du jeune poëte, qu'il le prit chez lui, l'éleva et en fit plus tard son héritier.]

882 Amour et piété. Appartient à *M. Samuel Ashton.*

MACLISE, D.-M., R.A., 14 *Russell-place, Fitzroy-sq.*

883 Le manoir du baron ; fête de Noël dans le vieux temps. Appartient à *M. C. Birch.*
884 L'épreuve du toucher. Appartient à *M. J. Wright.*
[Anciennes coutumes saxonnes.]

KNIGHT, J. P., R.A., 2A *James-street, Buckingham palace, London.*

848 The Wreckers. The property of *S. Cartwright, Esq.*
[Not long since, some of the inhabitants of the remoter coasts of England were in the habit of placing beacon lights on the cliffs, to mislead vessels in distress, murdering the shipwrecked mariners, and plundering the vessels.]

849 Portrait of Thomas Vaughan. The property of *Royal Academy of Arts.*

850 John Knox trying to restrain the violence of the people, who, excited by his eloquence against the Church of Rome, destroyed the altars, missals, images of saints, &c., at Perth, 1559.

LANCE, GEORGE, 36 *Hart-street, Bloomsbury-square.*

851 Life and Death. The property of *C. T. Maud, Esq.*
852 Red Cap. The property of *T. Baring, Esq.*
853 The Village Coquette. The property of *R. Hemming, Esq.*

854 Fruit. The property of *J. Leech, Esq.*

LANDSEER, Sir E., R.A., 1 *St. John's Wood-road.*

855 Islay and Macaw. The property of *Her Majesty the Queen.*

856 Monkeys. The property of *Her Majesty the Queen.*
857 The Sanctuary. The property of *His Royal Highness Prince Albert.*
858 Shoeing. The property of *Jacob Bell, Esq.*
859 Jack in Office. The property of *J. Sheepshanks, Esq.*
860 The Highland Breakfast. The property of *J. Sheepshanks, Esq.*
861 The Drover's Departure for the South. The property of *J. Sheepshanks, Esq.*
862 The Tethered Ram. The property of *J. Sheepshanks, Esq.*
863 A Fire-side Party. The property of *J. Sheepshanks, Esq.*

LEE, F. R., R.A., 15 *Cockspur-street, Pall-mall.*

864 The Poacher. The property of *D. Salomons, Esq.*
865 A Stormy Lake.
866 The Silver Pool.

LESLIE, C. R., R.A., 2 *Abercorn-place, St. John's Wood.*

867 Her Majesty the Queen receiving the Sacrament on the day of her Coronation. The property of *Her Majesty the Queen.*
868 Catherine and Petruchio. The property of *J. Sheepshanks, Esq.*
869 Uncle Toby and Widow Wadman. The property of *J. Sheepshanks, Esq.*
870 The Vicar of Wakefield. The property of *T. Miller, Esq.*
[" I should have mentioned the very unpolite manner of Mr. Burchell, who, during this discourse, sat with his face turned to the fire, and at every sentence would cry out, *Fudge!*"]

871 Sancho Panza and the Duchess. The property of *The Nation.*

LINNELL, JOHN, *Redstone Wood, Redhill, Surrey.*

872 The Timber Waggon. The property of *S. Oxenham, Esq.*
873 Barley Harvest. The property of *C. Birch. Esq.*
874 Landscape. The property of *Joseph Gillott, Esq.*

875 The Disobedient Prophet.
876 The Forest Road.

LINTON, W., 7 *Lodge-place, St. John's Wood.*

877 The Temples at Pæstum.
878 A Gala Day at Venice.

LUCY, C., *Tudor Lodge, Albert-street, Mornington-road, Regent's Park.*

879 Cromwell at his Daughter's Death-bed. The property of *J. Wallace, Esq.*
880 Cromwell resolving to refuse the Crown. The property of *Messrs. Graves and Co.*

M'INNES, R., 1 *Clarendon-road, Kensington.*

881 Metastasio discovered by Gravina in Rome. The property of *S. Christy, Esq., M.P.*
[The learned Gravina was so struck with the talents of the young poet, that he took him to his own home, educated him, and in the end made him his heir.]

882 Love and Devotion. The property of *Samuel Ashton, Esq.*

MACLISE, D. M., R.A., 14 *Russell-place, Fitzroy-sq.*

883 The Baron's Hall. Christmas in the Olden Time. The property of *C. Birch, Esq.*
884 Ordeal by Touch. The property of *J. Wright, Esq.*

MACNEE, D., R.S.A., *Glasgow.*

885 Portrait de feu le docteur Wardlaw. Appartient à *M. W.-P. Paton.*

MILLAIS, J.-E., A.R.A., *South Cottage, Kingston-on-Thames.*

886 L'ordre d'élargissement. Appartient à *M. J. Arden.*

887 Le retour de la colombe à l'arche. Appartient à *M. T. Combe.*

888 Ophélia. Appartient à *M. H. Farrer.*

MULREADY, W., R.A., *Linden Grove, Bayswater.*

889 Le choix de la robe de noces. Appartient à *M. J. Sheepshanks.*

["J'ai choisi ma femme comme elle a choisi elle-meme sa robe de noces, non pour une surface brillante, mais pour des qualités telles qu'elle soit d'un bon usage."—*Vicar of Wakefield.*]

890 Parc de Blackheath. Appartient à *M. J. Sheepshanks.*

891 Le but. Appartient à *M. J. Sheepshanks.*

892 Le frère et la sœur. Appartient à *M. J. Sheepshanks.*

893 Le loup et l'agneau. Appartient à *S. M. la Reine.*

894 Les baigneuses. Appartient à *M. Th. Baring, M.P.*

895 "Mettez un enfant dans la voie qu'il doit suivre," etc. Appartient à *M. Th. Baring, M.P.*

896 La discussion sur les principes du docteur Whiston. Appartient à *M. Th. Baring, M.P.*

897 Le Canon. Appartient au *T. H. sir R. Peel, bart., M.P.*

MULVANY, G.-F., R.H.A., 35 *Lower Mount-street, Dublin.*

898 Portrait en pied de M. W. Dargan, fondateur de la grande exposition industrielle de 1853, à Dublin.

MUTRIE, Mlle, 16 *Eldon-road, Kensington.*

899 Fleurs. Appartient à *M. F.-R. Lee.*

MUTRIE, Mlle. A. F., 16 *Eldon-road, Kensington.*

900 Fleurs. Appartient à *M. T. Creswick.*

OAKES, J. W., 60 *Pembroke-place, Liverpool.*

901 Vallon de Bersham.

902 Vallée de Sannox, île d'Arran, Ecosse.

O'NEIL, H., 6 *Garway-road, Bayswater.*

903 Le songe de Catherine d'Aragon. Appartient à *M. W.-E. Walmisley.*

["Pendant son sommeil, elle donne des marques de joie et tient ses mains tendues vers le ciel; et les fantômes s'evanouissent emportant les guirlandes avec eux."—*Henri VIII,* acte IV, scène 2.]

904 Derniers moments de Mozart. Appartient à *M. E. Simpson.*

905 Emotion d'Esther. Appartient à *T. Birchall.*

PATON, J.-N., R.S.A., *Edimbourg.*

906 La dispute d'Obéron et de Titania. Appartient à *l'Association royale du progrès des Arts, en Ecosse.*

[*Songe d'une Nuit d'Eté.*]

PATTEN, G., A.R.A., 59 *Berners-street, Oxford-street.*

907 Portrait de Paganini.

908 Le Dante accompagné par Virgile dans sa descente en enfer, reconnaît ses trois compatriotes.

PHILLIP, J., *South-villa, Campden-hill, Kensington.*

909 Un baptême presbytérien. Appartient à *M. J. Eden.*

910 Un écrivain public à Séville. Appartient à *S. M. la Reine.*

PICKERSGILL, H.-W., R.A., 14 *Stratford-place, Cavendish-square.*

911 Lord Brougham.

912 Une dame en costume grec moderne.

913 Un chevalier armé de toutes pièces.

PICKERSGILL, F.-R., A.R.A., 36 *Mornington-Crescent.*

914 Enterrement d'Harold à l'abbaye de Waltham. Appartient à *la Commission royale d'encouragement des Beaux-Arts.*

POOLE, P.-F., A.R.A., 43 *Camden-road Villas.*

915 Passage d'un ruisseau. Appartient à *M. W. Bashall.*

MACNEE, D., R.S.A., *Glasgow.*

885 Portrait of the late Dr. Wardlaw. The property of *W. P. Paton, Esq.*

MILLAIS, J. E., A.R.A., *South Cottage, Kingston-on-Thames.*

886 The Order of Release. The property of *J. Arden, Esq.*

887 The Return of the Dove to the Ark. The property of *T. Combe, Esq.*

888 Ophelia. The property of *H. Farrer, Esq.*

["There on the pendant boughs her coronet weeds
Clamb'ring to hang, an envious sliver broke;
When down her weedy trophies and herself
Fell in the weeping brook. . . . . ."]

MULREADY, W., R.A. *Linden Grove, Bayswater.*

889 Choosing the Wedding Gown. The property of *J. Sheepshanks, Esq.*

["I chose my wife as she did her wedding gown, not for a fine glossy surface, but such qualities as would wear well."—GOLDSMITH'S *Vicar of Wakefield.*]

890 Blackheath Park. The property of *J. Sheepshanks, Esq.*

891 The Butt. The property of *J. Sheepshanks, Esq.*

892 Brother and Sister. The property of *J. Sheepshanks, Esq.*

893 The Wolf and the Lamb. The property of *Her Majesty the Queen.*

894 The Bathers. The property of *T. Baring, Esq., M.P.*

895 "Train up a Child in the way he should go," &c. The property of *M. T. Baring, M.P.*

896 The Whistonian Controversy. The property of *T. Baring, Esq., M.P.*

897 The Cannon. The property of *Sir R. Peel, Bart., M.P.*

MULVANY, G. F., R.H.A., 35 *Lower Mount-street, Dublin.*

898 Whole length Portrait of Wm. Dargan, Esq., the Founder of the Great Industrial Exhibition of 1853 in Dublin.

MUTRIE, Miss, 16 *Eldon Road, Kensington.*

899 Flowers. The property of *F. R. Lee, Esq.*

MUTRIE, Miss A. F., 16 *Eldon-road, Kensington.*

900 Flowers. The property of *T. Creswick, Esq.*

OAKES, J. W., 60 *Pembroke-place, Liverpool.*

901 Vale of Bersham.

902 Glen Sannox, Isle of Arran, Scotland.

O'NEIL, H., 6 *Garway-road, Bayswater.*

903 The Dream of Katharine of Arragon. The property of *W. E. Walmisley, Esq.*

["At which she makes in her sleep signs of rejoicing, and holdeth up her hands to heaven; and so the spirits vanish, carrying the garland with them."—*Henry VIII.,* Act 4, Scene 2.]

904 The last Moments of Mozart. The property of *E. Simpson, Esq.*

905 Esther's Emotion. The property of *T. Birchall, Esq.*

PATON, J. N., R.S.A., *Edinburgh.*

906 Quarrel of Oberon and Titania. The property of the *Royal Association for the Promotion of the Fine Arts in Scotland.*

[*Vide* "Midsummer Night's Dream."]

PATTEN, G., A.R.A., 59 *Berners-street, Oxford-st.*

907 Portrait of Signor Paganini.

908 Dante accompanied by Virgil in his descent to the Inferno, recognizes his three countrymen.

PHILLIP, J., *South Villa, Campden-hill, Kensington.*

909 A Presbyterian Christening. The property of *J. Eden, Esq.*

910 A Letter-writer of Seville. The property of *Her Majesty the Queen.*

PICKERSGILL, H. W., R.A., 14 *Stratford-place, Cavendish-square, London.*

911 Lord Brougham.

912 A Lady in Modern Greek Costume.

913 A Knight in Armour.

PICKERSGILL, F. R., A.R.A., 36 *Mornington-crescent.*

914 Burial of Harold at Waltham Abbey. The property of *The Royal Commission for Promoting the Fine Arts.*

POOLE, P. F., A.R.A., 43 *Camden-road Villas.*

915 Crossing the Stream. The property of *W. Bashall, Esq.*

Painting, Engraving, &c.

916 La reine des Bohémiennes. Appartient à *M. T. Birchall.*
917 Job et les messagers. Appartient à *lord Northwiek.*

PYNE, J.-B., *York-Cottage, Walham-green, Fulham.*
918 Derwent-Water, lac dans le Cumberland. Appartient à *M. J. Graham.*
919 Heidelberg sur le Neckar. Appartient à *M. W. Ellis.*

920 Collége d'Eton. Appartient à *M. J. Mather.*

RANKLEY, A., *Clifton-Villa, Kensington.*
921 Les railleurs. Appartient à *M. S.-C. Marsh.*
["Et les sots qui étaient venus pour railler, restèrent à prier." —GOLDSMITH, *le Village abandonné.*]

REDGRAVE, R., R.A., 18 *Hyde-park-gate, Kensington.*
922 Le ravin des poëtes. Appartient à *M. L Loyd.*
["Dans cette retraite, Coleridge, Wordsworth et Southey, composèrent un grand nombre de leurs poésies."]
923 Le Miroir de la forêt. Appartient à *M. W. Bashall.*

924 La fille du pauvre gentilhomme. Appartient à *M. J. H. Hippisley.*
925 Ophélia. Appartient à *M. J. Sheepshanks.*

RICHARD, A., *île Mauriee.*
926 Danse de nègres, à Maurice.

RIPPINGILLE, E.-V., 82 *Regent-street.*
927 Violetta.

ROBERTS, D., R.A., 7 *Fitzroy-street, Fitzroy-square.*
928 Vue du grand canal, à Venise. Appartient à *lord Londesborough.*
929 Intérieur de l'église de Saint-Etienne, à Vienne. Appartient à *M. Thomas Cubitt.*
930 Intérieur de l'église de St-Gomar, à Lierre, Belgique. Appartient à *M. E. Bicknell.*
931 Ruines du temple du Soleil, à Baalbec, Syric. Appartient à *M. E. Bicknell.*

ROTHWELL, R., *aux soins de M. Foggo*, 58 *Warren-street, Fitzroy-square.*
932 Calisto.

SALTER, W.
933 Vénus enseigne à son fils l'usage de l'arc. Appartient à *M. E.-W. Anderson.*

SANT, J., *Norton-lodge, Mumbles, near Swansea.*
934 Timothée enfant. Appartient à *M. W. Bashall.*
935 Samuel enfant. Appartient a *M. W. Bashall.*

SOLOMON, A., 50 *Upper Charlotte-street, Fitzroy-square.*
936 Brunetta et Phillis: sujet tiré du 'Spectator.' Appartient à *M. W. Bashall.*

STANFIELD, C., R.A., *The Green-hill, Hampstead.*
937 La bataille de Roveredo. Appartient à *M. F.-D.-P. Astley.*
938 Château d'Ischia, vu du môle. Appartient à *lord Overstone.*
939 Un dogre hollandais ayant sa brigantine emportée. Appartient à *M. A.-E. Chalon.*
940 Troupes françaises passant à gué la Magra, Toscane, 1796. Appartient à *M. le comte d'Ellesmere.*

941 Le fort de Tilbury—Vent contre marée. Appartient à *M. Robert Stephenson, M.P.*

STONE, F., A.R.A., *Russell-House, Tavistock-square.*

942 Le dernier appel. Appartient à *M. T. Baring.*

943 La remontrance. Appartient à *M. T. Baring.*
944 Vieille, vieille histoire! Appartient à *M. J. Arden.*

TENNANT, J., *Castlenan-cottage, Barnes.*
945 Les phares du Brecknock (montagnes du pays de Galles). Appartient à *M. C. Buller.*
946 Une riviere en Angleterre. Appartient à *M. W. Birley.*
947 Après l'orage (côte de Jersey). Appartient à *M. J. Brooks.*

UWINS, T., R.A., *Victoria-road, Kensington.*
948 Le sculpteur d'images. Appartient à *M. T. Fairbairn.*

949 Les Vendanges dans le Médoc, Appartient à *la Galerie nationale.*

916 The Gypsy Queen. The property of *T. Birchall, Esq.*
917 The Messenger announcing ill tidings to Job. The property of *Lord Northwiek.*

PYNE, J. B., *York Cottage, Walham-green, Fulham.*
918 Derwent Water. The property of *J. Graham, Esq.*

919 Heidelberg on the Neckar. The property of *W. Ellis, Esq.*
920 Eton College. The property of *J. Mather, Esq.*

RANKLEY, A., *Clifton Villa, Kensington,*
921 The Scoffers. The property of *S. C. Marsh, Esq.*
["And fools who came to scoff remained to pray."—*Vide* GOLDSMITH'S *Deserted Village.*]

REDGRAVE, R., R.A., 18 *Hyde Park-gate, Kensington.*
922 The Poet's Study. The property of *L. Loyd, Esq.*
[In this glen the three poets, Coleridge, Wordsworth, and Southey, composed many of their poems.]
923 The Woodland Mirror. The property of *W. Bashall, Esq.*
924 The Reduced Gentleman's Daughter. The property of *J. H. Hippisley, Esq.*
925 Ophelia. The property of *J. Sheepshanks, Esq.*
["There is a willow grows aslant a brook,
That shows his hoar leaves in the glassy stream;
There with fantastie garlands did she eome."
Hamlet, Aet 4, Seene 7.]

RICHARD, A., *Mauritius.*
926 Dance of Negroes at Mauritius.

RIPPINGILLE, E. V. 82 *Regent-street, London.*
927 Violetta.

ROBERTS, D., R.A., 7 *Fitzroy-st., Fitzroy-sq., London.*
928 View on the Grand Canal, Venice. The property of *Lord Londesborough.*
929 Interior of St. Stephen's Church, Vienna. The property of *Thomas Cubitt, Esq.*
930 Interior of the Church of St. Gomar, Lierre, Belgium. The property of *E. Bicknell, Esq.*
931 Ruins of the Temple of the Sun at Baalbec, Syria. The property of *E. Bicknell, Esq.*

ROTHWELL, R., care of Messrs. Foggo.

932 Calisto.

SALTER, W.
933 Cupid's Amusement: Venus teaching her Son the use of the Bow. The property of *E. W. Anderson, Esq.*

SANT, J., *Norton Lodge, Mumbles, near Swansea.*
934 The child Timothy. The property of *W. Bashall, Esq.*
935 The infant Samuel. The property of *W Bashall, Esq.*

SOLOMON, A., 50 *Upper Charlotte-street, Fitzroy-square, London.*
936 Brunetta and Phillis, *vide* 'Spectator.' The property of *W. Boshall, Esq.*

STANFIELD. C., R.A , *The Green Hill, Hampstead.*
937 The Battle of Roveredo. The property of *F. D. P. Astley, Esq.*
938 The Castle of Ischia from the Mole. The property of *Lord Overstone.*
939 A Dutch Dogger carrying away her Sprit. The property of *A. E. Chalon, Esq.*
940 French Troops fording the Magra (A.D. 1796). Sarzana and the Carrara Mountains in the distance. The property of *The Earl of Ellesmere, K.G.*
941 Tilbury Fort—Wind against Tide. The property of *Robert Stephenson, Esq., M.P.*

STONE, F., A.R.A., *Russell House, Tavistock-square, London.*
942 The Last Appeal. The property of *T. Baring, Esq.*

943 Admonition. The property of *T. Baring, Esq.*
944 The Old, Old Story. The property of *J. Arden, Esq.*

TENNANT, J., *Castlenan Cottage, Barnes.*
945 Brecknock Beacons. The property of *C. Buller, Esq.*

946 An English River Scene. The property of *W. Birley, Esq.*
947 Effect after a Thunder-storm — Jersey coast. The property of *J. Brooks, Esq.*

UWINS, T., R.A., *Victoria-road, Kensington.*
948 The Carver of Images. The property of *T. Fairbairn, Esq.*
949 The Vintage in Medoc, South of France. The property of *The Nation.*

Painting, Engraving, &c.

950 Une veuve napolitaine, pleurant son enfant mort, s'abandonne au désespoir en entendant les bruits joyeux du carnaval. Appartient à *l'Académie royale des arts.*

950 A Neapolitan Widow, mourning over her dead child, is distracted by the joyous sounds of the Carnival. The property of the *Royal Academy of Arts.*

WARD, E.-M., A.R.A., 11 *Upper-park-villas, Slough.*

951 Le dernier sommeil d'Argyll avant son exécution. Appartient à *la Commission royale d'encouragement des beaux-arts.*

WARD, E.-M., A.R.A., 11 *Upper Park Villas, Slough.*

951 The Last Sleep of Argyll before his Execution. The property of *The Royal Commission for Promoting the Fine Arts.*

["So effectually had religious faith and hope, co-operating with natural courage and equanimity, composed his spirits, that on the very day on which he was to die he dined with appetite, conversed with gaiety at table, and, after his last meal, lay down, as he was wont, to take a short slumber, in order that his mind and body might be in full vigour when he should mount the scaffold. * * * "—MACAULAY'S *History of England.*]

952 L'Exécution de Montrose. Appartient à *la Commission royale d'encouragement des beaux-arts.*

952 The Execution of Montrose. The property of *The Royal Commission for Promoting the Fine Arts.*

953 Les déceptions des actionnaires de la compagnie de la mer du Sud. Appartient à *la Galerie nationale.*

953 The South Sea Bubble. The property of *The Trustees of the National Gallery.*

954 La famille royale au Temple. Appartient à *M. R. Newsham.*

954 Scene from the Life of Marie Antoinette. The property of *R. Newsham, Esq.*

WEBSTER, T., R.A., *Mall, Kensington Gravel-pits.*

955 Le jeu du ballon. Appartient à *M. J.-H. Hippisley.*

955 Foot-Ball. The property of *J. H. Hippisley, Esq.*

956 Un chœur d'église de village. Appartient à *M. J. Sheepshanks.*

956 A Village Choir. The property of *J. Sheepshanks, Esq.*

957 Les vents contraires. Appartient à *M. J. Sheepshanks.*

957 Contrary Winds. The property of *J. Sheepshanks, Esq.*

958 Le marchand de cerises. Appartient à *M. G. Young.*

958 The Cherry Seller. The property of *G. Young, Esq.*

959 Deux têtes. Portraits.

959 Portraits.

WEST, W., *Observatory, Clifton, Bristol.*

960 Vue prise en Norwège.

WEST, W., *Observatory, Clifton, Bristol.*

960 View in Norway.

WILLIS, H.-B., 7 *Lidlington-place, Oakley-square.*

961 Le point du jour; le départ pour les champs.

962 Effet de soleil sur la Severn. Appartient à *M. P. Johnston.*

WILLIS, H B., 7 *Lidlington pl., Oakley-sq., London.*

961 Early Morning; going a-field.

962 A Sunny Scene on the Severn. The property of *P. Johnston, Esq.*

WILSON, J., jun., *Briarly-House, Folkestone, Kent.*

963 Bâtiments de ferme près de Staplehurst, Kent.

964 Rafales au large de Douvres.

WILSON, J., jun., *Briarly House, Folkestone, Kent.*

963 Farm Buildings, near Staplehurst, Kent.

964 Squally Weather off Dover.

WITHERINGTON, W.-F., R.A., 36 *Mornington-crescent, Hampstead-road.*

965 Le chemin autour du pare. Appartient à *M. A.-C. Burnand.*

WITHERINGTON, W. F., R.A., 36 *Mornington-crescent, Hampstead-road, London.*

965 The Way round the Park. The property of *A. C. Burnand, Esq.*

PEINTRES À L'AQUARELLE.

PAINTERS IN WATER-COLOURS.

Water Colours.

BARTHOLOMEW, V., 23 *Charlotte-street, Portland-place.*

966 Passe-roses.

BARTHOLOMEW, V., 23 *Charlotte-street, Portland-place.*

966 Hollyhocks.

BENNETT, W., *New-Park-road, Clapham-park.*

967 Le défilé de Gleneoe. Appartient à *M. W. Heptinstall,*

968 Une Vallée d'Ecosse. Appartient au *Dr. W. Whewell.*

BENNETT, W., *New Park-road, Clapham-park.*

967 The Pass of Gleneoe. The property of *W. Heptinstall, Esq.*

968 A Highland Glen. The property of *Dr. W. Whewell.*

CALLOW, W., 20 *Charlotte-street, Portland-place.*

969 Vue de la ville de Tours.

970 Intérieur du Port de Marseilles.

CALLOW, W., 20 *Charlotte-st., Portland-pl., London.*

969 View of Tours, on the Loire.

970 The Inner Harbour at Marseilles.

CARRICK, THOS., 10 *Montagu-street, Portman-square.*

972 Portrait de M. S. Rogers.

973 Portrait de M. Thos. Carlyle.

974 Portrait de lord J. Russell, M.P.

975 Portrait du signor Lablache.

(Miniatures sur marbre.)

CARRICK, THOS., 10 *Montagu-estreet, Portman-square.*

972 Portrait on marble of S. Rogers, Esq.

973 Portrait on marble of Thos. Carlyle, Esq.

974 Portrait on marble of Lord John Russell, M.P.

975 Portrait on marble of Signor Lablache.

CATTERMOLE, G., *Clapham-rise.*

976 Hamilton de Bothwell-haugh s'apprêtant à tirer sur le régent Murray, frère naturel de Marie, reine d'Ecosse, au moment où celui-ci traverse Linlithgow (23 janvier, 1570). Appartient à *M. R. Ellison.*

977 Macbeth reprochant aux meurtriers de Banquo la fuite de Fléance.—Les sorcières à l'arrière-plan. Appartient à *M. R. Ellison.*

978 Sir Biorn aux yeux étincelants. Appartient à *M. R. Ellison.*

["Son habitude journalière était de placer, en guise de compagnie, l'armure de ses ancêtres, tout autour de la table à laquelle il s'asseyait pour boire."—Voir "*Sintram et ses Compagnons,*" par Delamotte Fouqué.]

979 Pélerins à la porte d'un monastère. Appartient à *M. J. Henderson.*

980 Le traître trahi. Appartient à *M. J. Henderson.*

981 Lecture de la Bible au temps de la Réforme. Appartient à *M. G. Haines.*

982 Brigands portant à Benvenuto Cellini un de ses ouvrages pour en faire l'estimation. Appartient à *M. G. Haines.*

CATTERMOLE, G., *Clapham Rise.*

976 Hamilton of Bothwell-haugh about to shoot the Regent Murray, the natural brother of Mary, Queen of Scotland, when passing through Linlithgow, 23rd January, 1570. The property of *R. Ellison, Esq.*

977 Macbeth upbraiding the murderers of Banquo with allowing Fleance to escape—the Weird Sisters in the background. The property of *R. Ellison, Esq.*

978 Sir Biorn of the Fiery Eyes. The property of *R. Ellison, Esq.*

["It was his daily custom, by way of company, to have the armour of his ancestors placed all round the table at which he sat carousing."—Vide "*Sintram and his Companions,*" by De La Motte Fouqué.]

979 Pilgrims at the Monastery Gate. The property of *J. Henderson, Esq.*

980 The Betrayer betrayed. The property of *J. Henderson, Esq.*

981 Reading the Bible at the time of the Reformation. The property of *G. Haines, Esq.*

982 Benvenuto Cellini has one of his own works brought to him by Brigands to be valued. The property of *G. Haines, Esq.*

Painting, Engraving, &c.

983 La bibliothèque du monastère. Appartient à *M. E. Duncan.*
984 Le prêche. Appartient à *MM. J. et W. Vokins.*
985 Lecture de la Bible. Appartient à *M. G. Giles.*
986 La porte du monastère. Appartient à *M. G. Giles.*

CHALON, A.-E., R.A., *Campden-hill, Kensington.*
987 Portrait de S. M. la Reine Victoria. Appartient à *S. A. R. la Duchesse de Kent.*

CORBAUX, Mlle F., 22 *Westbourne-place, Eaton-square.*
988 Lia. Appartient à *sir S.-M. Peto, bart.*
989 Rachel. Appartient à *sir S.-M. Peto, bart.*

CORBOULD, E.-H., 21 *Rutland gate, Hyde Park.*
990 La femme adultère. Appartient à *S. A. R. le prince Albert.*
991 Scène tirée du *Prophète.* Appartient à *S. M. la Reine.*

992 Le comte de Surrey contemplant la belle Géraldine à l'aide du miroir magique Appartient au *comte d'Ellesmere, K.G.*

COWEN, W., *Thistle-grove, Old Brompton.*
993 Dessins de la grotte de Napoléon, à Ajaccio (Corse).

COX, D., *Harborne, Birmingham.*
994 Traversée des sables de Lancastre. Appartient à *M. R. Ellison.*
995 Jonction de la Severn et de la Wye; château de Chepstow dans le lointain. Appartient à *M. R. Ellison.*
996 Le château de Windsor; vue prise du grand parc. Appartient à *M. R. Ellison.*
997 Funérailles dans le pays de Galles. Appartient a *M. F.-W. Topham.*

D'EGVILLE, J.-H., 5 *Carpenter-street, Berkeley-square.*
998 Padoue.

DUNCAN, E., 3 *Mornington-place, Hampstead-road.*
999 Coucher de soleil. Appartient à *M. H. Brooks.*
1000 Bateaux hollandais recevant un coup de vent. Appartient à *M. F.-W. Topham.*

DYCE, W., R.A., *The Oaks, Dulwich.*
1001 L'Art; projet de fresque.

ESSEX, W., 3 *Osnaburgh-street, Regent's Park.*
1002 L'enfant-Jésus, d'après Murillo; émail.
1003 Lord Byron, d'après Murillo; émail.
1004 Gevartius, d'après Van-Dyck; émail.

1005 Shakspeare, d'après le portrait appartenant au comte d'Ellesmere. Appartient à *M. G. Smith.*

1006 Milton, d'après le portrait appartenant à M. G. Smith; émail. Appartient à *M. G. Smith.*

EVANS, W., *Eton-college, Windsor.*
1007 Prairies dans le Hampshire (Angleterre). Appartient à *M. Robert Barnett.*
1008 Killarney (Irlande). Appartient au *révérend W.-A. Carter.*
1009 Glen Tilt (Ecosse). Appartient à *M. H. Ingalton.*

FAHEY, J., 15 *York-place, Brompton.*
1010 Pic de Stickle et Harrison Stickle. Appartient à *M. R. Ashton.*
1011 Château de Stirling.

FIELDING, C., dernier Président des peintres d'aquarelle, 56 *Charlotte-street, Portland-place.*

1012 Falaises de Seaford. Appartient à *M. L. Lloyd.*
1013 Marais de Lancing. Appartient à *M. T.-F. Buxton.*
1014 Plage de Bembridge. Appartient à *M. A. Vardon.*

1015 Vue de Scarborough. Appartient à *M. Leopold Redpath.*
1016 La vallée d'Irthing, dans le Cumberland. Appartient à *M. R. Ellison.*

FRIPP, G., 56 *Camden-square.*
1017 Ullwell, Dorset. Appartient à *M. T. Schunk.*
1018 Chûte du Dochart à Killin, dans le Perthshire. Appartient à *M. J.-M. Heathcote.*
1019 Pangbourne. Appartient à *M. S. Cartwright.*
1020 Coup-d'œil à Hampstead. Appartient à *M. E.-W. Field.*

983 The Monastery Library. The property of *E. Duncan Esq.*
984 The Homily. The property of *J. and W. Vokins, Esqrs.*
985. Reading the Bible. The property of *G. Giles, Esq.*
986 The Monastery Gate. The property of *G. Giles, Esq.*

CHALON, A. E., R.A., *Campden-hill, Kensington.*
987 Portrait of Her Majesty Queen Victoria. The property of *Her Royal Highness the Duchess of Kent.*

CORBAUX, Miss F., 22, *Westbourne-place, Eaton-square.*
988 Leah. The property of *Sir S. M. Peto, Bart.*
989 Rachel. The property of *Sir S. M. Peto, Bart.*

CORBOULD, E. H., 21 *Rutland-gate, Hyde Park.*
990 The Woman taken in Adultery. The property of *His Royal Highness Prince Albert.*
991 Scene from "The Prophet." The property of *Her Majesty The Queen.*
992 The Earl of Surrey "beholding the Fayre Geraldine in the Magic Mirror." The property of *The Earl of Ellesmere, K.G.*

COWEN, W., *Thistle-grove, Old Brompton.*
993 Two Drawings of Napoleon's Grotto, Ajaccio, Corsica.

COX, D., *Harborne, Birmingham.*
994 Crossing the Lancaster Sands. The property of *P. Ellison, Esq.*
995 The Junction of the Severn and the Wye. Chepstow Castle in the distance. The property of *R. Ellison, Esq.*
996 Windsor Castle from the Great Park. The property of *R. Ellison, Esq.*
997 A Welsh Funeral. The property of *F. W. Topham, Esq.*

D'EGVILLE, J. H., 5 *Carpenter-street, Berkeley-square.*
998 Padua.

DUNCAN, E., 3 *Mornington-place, Hampstead-road.*
999 Sunset. The property of *H. Brooks, Esq.*
1000 Dutch Boats riding out a Gale. The property of *F. W. Topham, Esq.*

DYCE, W., R.A., *The Oaks, Dulwich.*
1001 Art, a Cartoon for Fresco.

ESSEX, W., 3 *Osnaburgh-street, Regent's Park.*
1002 Enamel of the Infant Saviour, after Murillo.
1003 Enamel of Lord Byron.
1004 Enamel, after Vandyck's picture of Gevartius in the National Gallery.
1005 Shakespeare. Enamel after Portrait in possession of the Earl of Ellesmere. The property of *G. Smith, Esq.*
1006 Milton. Enamel after Portrait in possession of G. Smith, Esq. The property of *G. Smith, Esq.*

EVANS, W., *Eton College, Windsor.*
1007 England: Hampshire Water Meadows. The property of *Robert Barnett, Esq.*
1008 Ireland: Killarney. The property of the *Rev. W. A. Carter.*
1009 Scotland: Glen Tilt. The property of *H. Ingalton, Esq.*

FAHEY, J., 15 *York-place, Brompton.*
1010 Pike of Stickle, and Harrison Stickle. The property of *R. Ashton, Esq.*
1011 Stirling Castle.

FIELDING, C., 56 *Charlotte-street, Portland-place* (late President of the Society of Painters in Water Colours).
1012 Seaford Cliffs. The property of *L. Loyd, Esq.*
1013 Lancing Marsh. The property of *T. F. Buxton, Esq.*
1014 Shore Scene at Bembridge. The property of *A. Vardon, Esq.*
1015 View of Scarborough. The property of *Leopold Redpath, Esq.*
1016 The Vale of Irthing, Cumberland; Naworth Castle seen on the left, and Lanercost Priory on the right of the picture. The property of *R. Ellison, Esq.*

FRIPP, G., 56 *Camden-square, London.*
1017 At Ullwell, Dorset. The property of *T. Schunk, Esq.*
1018 Falls of the Dochart at Killin, Perthshire. The property of *J. M. Heathcote, Esq.*
1019 At Pangbourne. The property of *S. Cartwright, Esq.*
1020 A Peep at Hampstead. The property of *E. W. Field, Esq.*

GASTINEAU, H., *Coldharbour-lane, Camberwell.*

1021 Le défilé de Klamme, en Styrie.

GILLIES, Mlle M., 6 *Southampton-street, Fitzroy-square.*

1022 L'affligée. Appartient à *M. T.-D. Hill.*

HAAG, C., 17 *Golden-square.*

1023 Une soirée au château de Balmoral. Appartient à *S. M. la Reine.*

1024 Une matinée dans les montagnes d'Ecosse: la famille royale gravissant le Loelmagar. Appartient à *S. M. la Reine.*

HAGHE, L., 6 *Upper Belmont-place, Wandsworth-road.*

1025 Capucins à matines, à Bruges. Appartient au *r'vérend H. Cottingham.*

1026 Salle d'audience, à Bruges. Appartient à *M. T. MacKendrick.*

HARDING, J.-D.

1027 Chutes du Rhin à Schaffouse. Appartient à *M. John Taylor.*

HARRISON, Mlle M., 6 *New Chapel-place, Kentish-Town.*

1028 Fruits et fleurs.

HAYES, M.-A., R.H.A., 4 *Salem-place, Dublin.*

1029 Le 16e lanciers enfonçant le carré de l'infanterie Siekh, à Aliwal.

HOWSE, G., 4 *Bolton-place, Chelsea.*

1030 Un Intérieur.

HUNT, W., 62 *Stanhope-street, Hampstead-road.*

1031 Une jeune fille avec une corbeille de fleurs Appartient à *M. W. Sheepshanks.*

1032 L'attaque. Appartient à *M. W. Sheepshanks.*

1033 La victoire. Appartient à *M. W. Sheepshanks.*

1034 Raisins et prunes. Appartient à *M. S. Maw.*

1035 Primevères et nid d'oiseau. Appartient à *M. S. Maw.*

1036 Roses. Appartient à *M. S. Maw.*

1037 Lièvre et ramiers. Appartient à *M. S. Maw.*

1038 Timidité. Propriété de *M. S. Maw.*

1039 Le chanteur de ballades. Appartient à *M. L. Pocock.*

1040 Le joueur de cricket. Appartient à *M. C. Birch.*

1041 Une froide matinée. Appartient à *M. C. Birch.*

JOPLING, J.-M., 16 *Pelham-place, Brompton, Middlesex.*

1042 Portrait de Mme Ashton. Appartient à *M. A.-F. Ashton.*

KEARNEY, W.-H., 14 *Coulstone-street, Chelsea.*

1043 Le tableau fatal.

1044 La statue fatale. Appartient à *M. T.-H. Maudslay.*

LEE, W., 3 *Euston-place, New Road.*

1045 Jeunes filles fabriquant des tresses pour les chapeaux de paille (Saint-Albans). Appartient à *M. J. George.*

1046 L'attente du facteur. Appartient à *M. J. George.*

LEWIS, J.-F., *The Holme, Walton-on-Thames.*

1047 Le harem d'un bey. Appartient à *M. J. Arden.*

1048 Le scribe arabe, au Caire. Appartient à *M. J. Harris.*

1049 Le jour de Pâques, à Rome. Appartient à *M. W. Leaf.*

1051 Chameaux dans le désert (Egypte). Appartient à *M. L. Pocock.*

M'KEWAN, D.-H., 7 *Bengal-place, New Kent-road.*

1052 Dans la vallée de Fiulas (Argyleshire).

1053 Sur la lisière d'une forêt séculaire. Appartiént à *M. T. Greenwood.*

MARGETTS, Mme, 4 *Park-place, Church-street, Chelsea.*

1054 Fruits et objets d'art. Appartient à *M. J. Peeling.*

MULREADY, W., R.A., *Linden-grove, Kensington Gravel-pits.*

1054*a* Dessin d'après nature.

1054*b* Dessin d'après nature.

NAFTEL, P.-J., 10 *Grange-road, Guernsey.*

1055 Pierres de la Lynn. Appartient à *M. O. Oakley.*

1056 La digitale pourprée. Appartient à *M. O. Oakley.*

NASH, JOSEPH.

1057 La galerie des cartons de Knowle (Kent). Appartient à *M. R. Ellison.*

1058 Speke-Hall, près de Liverpool. Appartient à *M. R. Ellison.*

1059 Abbeville. Appartient à *MM. Graves et Comp.*

GASTINEAU, H., *Coldharbour-lane, Camberwell.*

1021 The Klamme Pass, Styria.

GILLIES, Miss M., 6 *Southampton-street, Fitzroy-square.*

1022 The Mourner. The property of *T. D. Hill, Esq.*

HAAG, C., 17 *Golden-square.*

1023 Evening at Balmoral Castle. The property of *Her Majesty the Queen.*

1024 Morning in the Highlands. The property of *Her Majesty the Queen.*

HAGHE, L., 6 *Upper Belmont-place, Wandsworth-road.*

1025 Capuein Monks at Matins, Bruges. The property of the *Rev. H. Cottingham.*

1026 The Audience Chamber at Bruges. The property of *T. MacKendrick, Esq.*

HARDING, J. D.

1027 The Falls of Schaffhausen. The property of *John Taylor, Esq.*

HARRISON, Mrs. M., 6 *New Chapel-place, Kentish Town.*

1028 Fruit and Flowers.

HAYES, M. A., R.H.A., 4 *Salem-place, Dublin.*

1029 The Sixteenth Laneers breaking the Square of Sikh Infantry at Aliwal.

HOWSE, G., 4 *Bolton-place, Chelsea.*

1030 An Interior.

HUNT, W., 62 *Stanhope-street, Hampstead-road.*

1031 A Girl with a Basket of Flowers. The property of *W. Sheepshanks, Esq.*

1032 The Attaek. The property of *W. Sheepskanks, Esq.*

1033 The Vietory. The property of *W. Sheepshanks, Esq.*

1034 Grapes and Plums. The property of *S. Maw, Esq.*

1035 Primroses and Bird's nest. The property of *S. Maw, Esq.*

1036 Roses. The property of *S. Maw, Esq.*

1037 Hare and Wood Pigeons. The property of *S. Maw, Esq.*

1038 Diffidence The property of *S. Maw, Esq.*

1039 The Ballad Singer. The property of *L. Pocock, Esq.*

1040 The Crieketer. The property of *C. Birch, Esq.*

1041 A Frosty Morning. The property of *C. Birch, Esq.*

JOPLING, J. M., 16 *Pelham-place, Brompton, Middlesex.*

1042 Portrait of Mrs. Ashton. The property of *A. F. Ashton, Esq.*

KEARNEY, W. H., 14 *Coulstone-street, Chelsea.*

1043 The Fatal Picture.

1044 The Fatal Statue. The property of *T. H. Maudslay, Esq.*

LEE, W., 3 *Euston-place, New Road.*

1045 Straw Plaiters near St. Albans. The property of *J. George, Esq.*

1046 Waiting for the Postman. The property of *J. George, Esq.*

LEWIS, J. F., *The Holme, Walton-on-Thames.*

1047 The Harem of a Bey. The property of *J. Arden, Esq.*

1048 The Arab Scribe, Cairo. The property of *J. Harris, Esq.*

1049 Easter Day at Rome. The property of *W. Leaf, Esq.*

1051 Camels in the Desert. Egypt. The property of *L. Pocock, Esq.*

M'KEWAN, D. H , 7 *Bengal-place, New Kent-road.*

1052 In Glen Finlas, Argyleshire.

1053 On the Skirts of an Aneient Forest. The property of *T. Greenwood, Esq.*

MARGETTS, MRS., 4 *Park-place, Church-street, Chelsea.*

1054 Still Life. The property of *J. Peeling, Esq.*

MULREADY, W., R.A., *Linden-grove, Kensington Gravel-pits.*

1054*a* A Chalk Study from Nature.

1054*b* A Chalk Study from Nature.

NAFTEL, P. J., 10 *Grange-road, Guernsey.*

1055 Stones of the Lynn. The property of *O. Oakley, Esq.*

1056 The Foxglove. The property of *O. Oakley, Esq.*

NASH, JOSEPH.

1057 The Cartoon Gallery at Knowle, Kent. The property of *R. Ellison, Esq.*

1058 Speke Hall, near Liverpool. The property of *R. Ellison, Esq.*

1059 Abbeville. The property of *Messrs. Graves and Co.*

Painting Engraving, &c.

1060 Bramhall-Hall. Appartient à *MM. Graves et Comp.*

1061 Hardwieke-Hall. Appartient à *MM. Graves et Comp.*

1062 Escalier à Knowle. Appartient à *MM. Graves et Comp.*

PALMER, S., 6 *Douro-place, Kensington.*

1063 Ulysse s'éloignant de l'île de Calypso.

PENLEY, A., *Addiscombe College, Croydon, Surrey.*

1064 Le naufrage.

1065 Le lac de Windermère (Cumberland).

RICHARD, A., *île Maurice.*

1066 Ile de la Passe.

RICHARDSON, T.-M., *Radnor-place, Hyde-park.*

1067 Ben Venue et Loch Katrine (Ecosse). Appartient à *M. P. Fairbairn.*

ROBINS, T.-S., 1 *Lansdowne-terrace East, Brighton.*

1068 Bâtiment hollandais sortant du pert de Flessingue.

ROSS, sir W. C., R.A., 38 *Fitzroy-square.*

1069 Portraits de la duchesse de Marlborough, de lady Louisa Spencer et de lord Almarie Churchill.

1070 Portrait de la marquise d'Ely. Appartient à *lady Hope Vere.*

1071 Portrait de la marquise de Breadalbane. Appartient au *Marquis de Breadalbane.*

1072 Portrait de Mme Lawes. Appartient à *M. J. B. Lawes.*

1073 Portrait de Mlle Burdett Coutts. Appartient à *Mme Brown.*

1074 Portrait de Mme H. Brown. Appartient à *Mlle Burdett Coutts.*

1075 Portrait de feu sir F. Burdett.

1076 Portraits de la marquise d'Abereorn et des ladies C. et H. Hamilton. Appartient au *due d'Hamilton.*

1077 Portraits du marquis de Douglas et de lord C. Douglas. Appartient au *duc d'Hamilton.*

SMITH, W.-C., 43 *Chester-square, Pimlico.*

1078 Le Jardin des Tuileries.

TAYLER, F., *Westbourne-grove, Bayswater.*

1079 Chevaux au Vert. Appartient á *M. J.-E. Denison, M.P.*

1080 Le tir au papegai. Appartient à *M. J.-C. Grundy.*

1081 La chasse au cerf. Appartient à *M. J. Hick.*

1082 Tir au lièvre de montagne. Appartient au *très-honorable H. Labouchere, M.P.*

1083 Chasse au faucon. Appartient au *très-honorable H. Labouchere, M.P.*

1084 Sir Roger de Coverley exeitant sa meute. Appartient au *très-honorable H. Labouchere, M.P.*

THORBURN, R., A.R.A., 47 *Ebury-street, Eaton-square.*

1085 Lady Constanee Grosvenor. Appartient au *comte Grosvenor.*

1086 Portrait de l'honorable Mme G. Upton. Appartient à *l'honorable colonel G.-F. Upton.*

1087 Portrait de lady Vane. Appartient au *comte Vane.*

1088 L'honorable Mme Yorke. Appartient à *l'honorable Mme Yorke.*

1089 Portraits de lady Lindsay et de sa sœur. Appartient à *lord Lindsay.*

1090 Portraits de Mme Sidney Herbert et de ses enfants. Appartient au *T. H. Sidney Herbert, M.P.*

TOPHAM, F.-W., 1 *Bloomfield-villas, Tufnell-Park West, Middlesex.*

1091 La diseuse de bonne aventure en Andalousie. Appartient à *M. Henry Cooke.*

1092 Rory O'More. Appartient à *M. E.-L. Betts.*

1093 La cabane du pêcheur. Appartient à *M. J. Robinson.*

VACHER, C., *The Boltons, West-Brompton, Middlesex.*

1094 Café en Algérie.

WARREN, E., *Hortulan-house, King's-road, Chelsea.*

1095 Vue prise de la falaise de Wynd, dans le Monmouthshire.

1060 Bramhall Hall. The property of *Messrs. Graves and Co.*

1061 Hardwicke Hall. The property of *Messrs. Graves and Co.*

1062 Stairease at Knowle. The property of *Messrs. Graves and Co.*

PALMER, S., 6 *Douro-place, Kensington.*

1063 Ulysses leaving the Island of Calypso.

PENLEY, A., *Addiscombe College, Croydon, Surrey.*

1064 The Wreek.

1065 Landseape.

RICHARD, A., *Mauritius.*

1066 View of the Ile de la Passe.

RICHARDSON, T. M., *Radnor-place, Hyde-park.*

1067 Ben Venue, Loch Katrine. The property of *P. Fairbairn, Esq.*

ROBINS, T. S., 1 *Lansdowne-terrace East, Brighton.*

1068 Dutch Galliott coming out of Flushing Harbour. Blowing hard.

ROSS, Sir W. C., R.A., 38 *Fitzroy-square, London.*

1069 Portraits of the Duchess of Marlborough, Lady Louisa Spencer, and Lord Almarie Churchill.

1070 Portrait of the Marchioness of Ely. The property of *Lady E. Hope Vere.*

1071 Portrait of the Marchioness of Breadalbane. The property of the *Marquis of Breadalbane.*

1072 Portrait of Mrs. Lawes. The property of *J. B. Lawes, Esq.*

1073 Portrait of Miss Burdett Coutts. The property of *Mrs. Brown.*

1074 Portrait of Mrs. H. Brown. The property of *Miss Burdett Coutts.*

1075 Portrait of the late Sir F. Burdett.

1076 Portraits of the Marchioness of Abereorn and Ladies C. and H. Hamilton. The property of the *Duke of Hamilton.*

1077 Portraits of the Marquis of Douglas and Lord C. Douglas. The property of the *Duke of Hamilton.*

SMITH, W. COLLINGWOOD, 43 *Chester-square, Pimlico.*

1078 The Garden of the Tuileries.

TAYLER, F., *Westbourne-grove, Bayswater.*

1079 Horses at Grass. The property of *J. E. Denison, Esq., M.P.*

1080 The Festival of the Popinjay. The property of *J. C. Grundy, Esq.*

1081 The Stag Hunt. The property of *J. Hick, Esq.*

1082 Shooting the Mountain Hare. The property of the *Right Hon. H. Labouchere, M.P.*

1083 Hawking. The property of the *Right Hon. H. Labouchere, M.P.*

1084 Sir Roger de Coverley eheering his Hounds. The property of the *Right Hon. H. Labouchere, M.P.*

THORBURN, R., A.R.A., 47 *Ebury-street, Eaton-square.*

1085 The Lady Constance Grosvenor. The property of *Earl Grosvenor.*

1086 Portrait of the Hon. Mrs. G. Upton. The property of the *Hon. Colonel G. F. Upton.*

1087 Portrait of Lady Vane. The property of *Earl Vane.*

1088 The Honourable Mrs. Yorke. The property of the *Honourable Mrs. Yorke.*

1089 Portraits of Lady Lindsay and her Sister. The property of *Lord Lindsay.*

1090 Portraits of Mrs. Sidney Herbert and her Children. The property of *The Right Hon. S. Herbert, M.P.*

TOPHAM, F. W., 1 *Bloomfield-villas, Tufnell-park West, Middlesex.*

1091 Fortune-telling in Andalusia. The property of *Henry Cooke, Esq.*

1092 Rory O'More. Irish Courtship. The property of *E. L. Betts, Esq.*

1093 The Fisherman's Home. The property of *J. Robinson, Esq.*

VACHER, C., 4 *The Boltons, West Brompton.*

1094 Café in Algeria.

WARREN, E., *Hortulan-house, King's-road, Chelsea.*

1095 The View from the Wynd Cliff, Monmouthshire.

WARREN, H., Président de la nouvelle Société des peintres d'aquarelles, *Hortulan-house, King's-road, Chelsea.*

1098 Un bossu racontant une histoire dans un café à Damas.
1099 Jeune fille d'Assam portant de l'eau. Appartient à *M. W. Wilson.*
1100 Les Mages en voyage. Appartient à *S. A. R. le prince Albert.*

WEHNERT, E.-H., 19 *Charles-street, Middlesex-hospital.*

1101 Sébastien Gomez surpris peignant dans l'atelier de Murillo. Appartient à *M. E.-L. Betts.*
1102 Caxton examinant la première épreuve sortie de sa presse dans l'abbaye de Westminster. Appartient à *M. J. Cropp.*
1103 Le Prisonnier de Gisors. Appartient à *M. L. Pocock.*

WEIGALL, C.-H., 13 *Michael's-place, Brompton.*

1104 Le petit chaperon rouge.
1105 Poule (polonaise) à paillettes d'argent. Appartient à *M. G. Virtue.*
1106 Poule (polonaise) à paillettes d'or. Appartient à *M. G. Virtue.*

WELLS, H.-T., 15 *Stratford-place, Oxford-street.*

1107 Portrait de M. Thomas Grounds.
1108 Portrait de lady Sarah Cholmondeley. Appartient à *l'honorable H. Cholmondeley.*
1109 Portrait de la femme du capitaine Arthur Cumming, R.N. Appartient au *capitaine A. Cumming, R.N.*

WARREN, H., *Hortulan-house, King's-road, Chelsea.*

1098 A Hunchback Story-teller performing in a Coffee-house at Damascus.
1099 An Assamese Girl, with Water Tubes. The property of *W. Wilson, Esq.*
1100 The Wise Men of the East journeying. The property of *His Royal Highness Prince Albert.*

WEHNERT, E. H., 19 *Charles-street, Middlesex-hospital.*

1101 Sebastian Gomez found Painting in Murillo's Studio. The property of *E. L. Betts, Esq.*
1102 Caxton examining the First Proof Sheet from his Press in Westminster Abbey. The property of *J. Cropp, Esq.*
1103 The Prisoner of Gisors. The property of *L. Pocock, Esq.*

WEIGALL, C. H., 13 *Michael's-place, Brompton.*

1104 Little Red Riding Hood.
1105 Poultry—Silver-spangled Polish Fowls. The property of *G. Virtue, Esq.*
1106 Poultry—Gold-spangled Polish Fowls. The property of *G. Virtue, Esq.*

WELLS, H. T., 15 *Stratford-place, Oxford-street.*

1107 Portrait of Mr. Thomas Grounds.
1108 Portrait of Lady Sarah Cholmondeley. The property of *The Honourable H. Cholmondeley.*
1109 Portrait of the Wife of Captain Arthur Cumming, R.N. The property of *Captain A. Cumming, R.N.*

CLASSE XXIX.

SCULPTURE ET GRAVURE EN CREUX.

SCULPTEURS.

ADAMS, G.-G., 126 *Sloane-street, Cadogan-place.*

1110 Un ancien Breton.
1111 Une boîte de Médailles.

AMBUCHI, T., 29 *Howland-street, Fitzroy-square.*

1112 Bacchus enfant.

BAILY, E.-H., R.A., 19 *Newman-street, Oxford-street.*

1113 Eve à la fontaine. Appartient au *capitaine L. Vernon, M.P.*
1114 L'étoile du matin. Appartient à *la Corporation de Londres.*

BELL, JOHN, 15 *Douro-place, Victoria-road, Kensington.*

1115 Angélique.
1116 Omphale se moquant d'Hercule.
1117 Berger tirant sur un aigle.
1118 Dorothée. L'original appartient au *marquis de Lansdowne, K.G.*
1119 La science armée. Doit être exécutée pour *Woolwich.*

BOZZONI, L., *Osnaburgh-street, Regent's Park.*

1120 Metabus et Camille. VIRGILE, En. XI.

CAMPBELL, T., 19 *Great Marlborough-street.*

1121 Ganymède.
1122 La princesse Pauline Borghese. Appartient au *duc de Devonshire, K.G.*

CAREW, J. E., *Cambridge-st., Hyde Park.*

1122*a* Le Fauconnier.

DURHAM, J., 26 *Alfred-place, Bedford-square.*

1123 Le destin du génie.
1124 L'Allegra.
1125 La Penserosa.

EARLE, T., *Vincent-street, Ovington-square, Brompton.*

1126 Le péché triomphant.

FOLEY, J.-H., A.R.A., 17 *Osnaburgh-street, Regent's Park.*

1127 Un jeune homme au ruisseau.
1128 Modèle pour statue de Selden.
1129 Modèle pour statue de Hampden.
1130 La mère.

GIBSON, J., R.A., *via Fontanella, Babuina, à Rome*

1131 Le Chasseur et le Chien. Appartient au *comte de Yarborough.*
1132 Hylas emporté par les nymphes. Appartient à *la Galerie nationale.*

CLASS XXIX.

Class 29. Sculpture.

SCULPTURE AND DIE-SINKING.

SCULPTORS.

ADAMS, G. G., 126 *Sloane-street, Cadogan-place.*

1110 An Ancient Briton.
1111 A case of Medals.

AMBUCHI, T., 29 *Howland-street, Fitzroy-quare.*

1112 The Young Bacchus.

BAILY, E. H., R.A., 19 *Newman-street, Oxford-street.*

1113 Eve at the Fountain. The property of *Captain L. Vernon, M.P.*
1114 The Morning Star. The property of *The Corporation of London.*

BELL, JOHN, 15 *Douro-place, Victoria-road, Kensington.*

1115 Angelica.
1116 Omphale mocking Hercules.
1117 The Eagle Slayer.
1118 Dorothea. The original in the possession of *The Marquis of Lansdowne, K.G.*
1119 Armed Science. To be executed for *Woolwich.*

BOZZONI, L., 13 *Osnaburgh-street, Regent's Park.*

1120 Metabus and Camilla. VIRGIL, Æn. XI.

CAMPBELL, T., 19 *Great Marlborough-street, London.*

1121 Ganymede.
1122 The Princess Pauline Borghese. The property of *The Duke of Devonshire, K.G.*

CAREW, J. E., *Cambridge-st., Hyde Park, London.*

1122*a* The Falconer.

DURHAM, J., 26 *Alfred-place, Bedford-sq., London.*

1123 The Fate of Genius.
1124 L'Allegra.
1125 La Penserosa.

EARLE, T., 1 *Vincent-street, Ovington-sq., Brompton.*

1126 Sin Triumphant.

FOLEY, J. H., A.R.A., 17 *Osnaburgh-street, Regent's Park, London.*

1127 A Youth at the Stream.
1128 Model for Statue of Selden.
1129 Model for Statue of Hampden.
1130 The Mother.

GIBSON, J., R.A., *Via Fontanella, Babuina, Rome.*

1131 Hunter and Dog. The property of *The Earl of Yarborough.*
1132 Hylas carried away by the Nymphs. The property of *The Nation.*

Sculpture.

GOTT, J., 115 *via Babuina, à Rome.*
1133 Ruth glanant. Appartient au *comte d'Ellesmere, K.G.*

HANCOCK, J., 101 *Stanhope-street, Mornington-cresecent.*
1134 Virginité.
1135 Béatrice.
1136 La mission de l'Ange.

HOGAN, J., 14 *Wentworth-place, Dublin.*
1137 Hibernia et Brian Boru.

HOLLINS, P., *Great Hampton-street, Birmingham.*
1138 Aurore et Zéphyr.

LAWLOR, J , 101 *Stanhope-street, Regent's Park.*
1139 La baigneuse.

LEGREW, J., 1 *Saint-Albans-road, Kensington.*
1140 Le repos.

MACDONALD, L., *à Rome.*
1141 Ulysse et son chien. Appartient au *comte de Kilmorey.*

MACDOWELL, P., R.A., 74A *Margaret-street, Cavendish-square.*
1142 Un rêve.
1143 Eve hésitant.
1144 Jeune fille lisant. Appartient au *comte d'Ellesmere, K.G.*
1145 Jeune fille se préparant pour le bain. Appartient à *l'Académie royale de Londres.*
1146 Buste de Psyché. Appartient à *M. R.-G. Clarke.*

MARSHALL, W.-C., R.A., 47 *Ebury-street, Eaton-square.*
1147 Ajax demande aux dieux la lumière.
1148 Sabrina. Appartient à *M. G. Moore.*
1149 La cruche cassée. Appartient à *M. F. Bennoch.*

1150 Le premier chuchotement de l'amour.
1151 Concorde, alliance de la France et de l'Angleterre.

MOORE, C., R.H.A , 22 *Howland-street, Fitzroy-sq.*
1152 Buste de lord Palmerston.
1153 Buste de M. Musurus.

1154 Buste du comte de Clarendon, K.G.
1155 Buste de J.-P. Curran.

MILLER, F.-M., 3 *Bloomfield-place, Pimlico.*
1156 Titania endormie.
1157 Ariel.

MUNRO, A., 6 *Upper Belgrave-place.*
1158 Paul et Françoise de Rimini. Appartient au *très-honorable W.-E. Gladstone, M.P.*

NOBLE, M., 13 *Bruton-street, Berkeley-square.*
1159 Bas-relief inspiré par le *Pont des soupirs*, poëme de Hood.

1160 Bas-relief, sujet tiré de *Eugène Aram*, poëme de Hood.

PARK, P., 104 *King-street, Manchester.*
1161 Buste de l'empereur Napoléon III.
1162 Buste de M. W. Fairbairn.
1163 Buste de M. J. Whitworth.
1164 Buste de M. J. Platt.

SHARP, T., 50 *Connaught-terrace, Edgeware-road.*
1165 Enfant effrayé par un lézard. Appartient à *lady Colborne.*
1166 Flore; buste.
1167 Bacchante; buste.

SPENCE, B.-E., 10 *via degl' Incurabili, à Rome.*
1168 Highland Mary. Appartient à *M. W. Kay.*

STEPHENS, E.-B., 27 *Upper Belgrave-place, Pimlico.*
1169 Satan tentant Eve.
1170 Lord Palmerston, buste; marbre. Appartient au *vicomte Palmerston.*

THOMAS, J.-E., 7 *Lower Belgrave-place.*
1171 Le joueur de raquette.

THORNYCROFT, Mme, 39 *Stanhope-street, Hampstead-road.*
1174 S. M. la reine Victoria, buste; bronze.

GOTT, J., 155 *Via Babuina, Rome.*
1133 Ruth Gleaning. The property of *The Earl of Ellesmere, K.G.*

HANCOCK, J., 101 *Stanhope-street, Mornington-cresecent.*
1134 Maidenhood.
1135 Danti Beatrice.
1136 The Angel's Mission.

HOGAN, J., 14 *Wentworth-place, Dublin.*
1137 Hibernia and Brian Boru.

HOLLINS, P , *Great Hampton-street, Birmingham.*
1138 Aurora and Zephyr.

LAWLOR, J., 101 *Stanhope-street, Regent's Park.*
1139 The Bather.

LEGREW, J., 1 *St. Albans-road, Kensington.*
1140 Repose.

MACDONALD, L., *Rome.*
1141 Ulysses and his Dog. The property of *The Earl of Kilmorey.*

MACDOWELL, P., R.A., 74A *Margaret-street, Cavendish-square, London.*
1142 The day-dream.
1143 Eve hesitating.
1144 Girl reading. The property of *The Earl of Ellesmere, K.G.*
1145 Girl preparing for the Bath. The property of the *Royal Academy.*
1146 Bust of Psyche. The property of *R. G. Clarke, Esq.*

MARSHALL, W. C., R.A., 47 *Ebury-street, Eaton-square.*
1147 Ajax praying for Light.
1148 Sabrina. The property of *G. Moore, Esq.*
1149 The Broken Pitcher. The property of *F. Bennoch, Esq.*

1150 The first Whisper of Love.
1151 Concordia—France and England allied.

MOORE, C., R.H.A., 22 *Howland-street, Fitzroy-sq.*
1152 Bust of Viscount Palmerston.
1153 Bust of M. Musurus, Ambassador from the Sublime Porte.
1154 Bust of the Earl of Clarendon, K.G.
1155 Bust of the Right Hon. J. P. Curran.

MILLER, F. M., 3 *Bloomfield-place, Pimlico, London.*
1156 Titania Asleep.
1157 Ariel.

MUNRO, A., 6 *Upper Belgrave-place, London.*
1158 Paolo and Francesca di Rimini. The property of *The Right Hon. W. E. Gladstone, M.P.*

NOBLE, M., 13 *Bruton-street, Berkeley-sq., London.*
1159 Bas-relief from Hood's "Bridge of Sighs."

"Lift her up tenderly,
Lift her with care."

1160 Bas-relief from Hood's "Eugene Aram."

"But the usher sat remote from all,
A melancholy man."

PARK, P., 104 *King-street, Manchester.*
1161 Bust of the Emperor of the French.
1162 Bust of W. Fairbairn, Esq.
1163 Bust of J. Whitworth, Esq.
1164 Bust of R. Platt, Esq.

SHARP, T., 50 *Connaught-terrace, Edgeware-road.*
1165 Boy startled at a Lizard. The property of *Lady Colborne.*
1166 Bust of Flora.
1167 Bust of a Bacchante.

SPENCE, B. E., 10 *Via degl' Incurabili, Rome.*
1168 Highland Mary. The property of *W. Kay, Esq.*

STEPHENS, E. B., 27 *Upper Belgrave-place, Pimlico.*
1169 Satan tempting Eve.
1170 Bust in marble of Viscount Palmerston. The property of *Viscount Palmerston.*

THOMAS, J. E., 7 *Lower Belgrave-place, London.*
1171 The Racket Player.

THORNYCROFT, MRS., 39 *Stanhope-street, Hampstead-road.*
1174 Bust in bronze of Her Majesty the Queen.

Sculpture.

WESTMACOTT, sir R., R.A., 14 *South-Audley-street.*

1175 Nymphe se préparant pour le bain. Appartient au *comte de Carlisle, K.G.*

1176 La voyageuse sans asile. Appartient au *marquis de Lansdowne, K.G.*

1177 Enfant endormi. Appartient à la *comtesse de Dunmore.*

WESTMACOTT, R., jun., R.A., 21 *Wilton-place, Belgrave-square.*

1178 Le jouur de cymbales. Appartient au *duc de Devonshire, K.G*

1179 Une jeune fille et un faon. Appartient à *M. C.-W. Packe, M.P.*

1180 Jacinthe des bois, bas-relief. Appartient au *comte d'Ellesmere, K.G.*

WESTMACOTT, J.-S., 14, *Saint-George's-road, Pimlico.*

1181 La Péri.

WEEKES, H., A.R.A., *Eccleston-st. South, Pimlico.*

1182 Un berger.

1183 La jeune naturaliste.

1184 Allan Cunningham, buste.

1185 Professeur Sedgwiek, buste.

WESTMACOTT, SIR R., R.A., 14 *South Audley-street.*

1175 A Nymph preparing for the Bath. The property of *The Earl of Carlisle, K.G.*

1176 The Houseless Traveller. The property of *The Marquis of Lansdowne, K.G.*

1177 The Sleeping Child. The property of *The Countess of Dunmore.*

WESTMACOTT, R., Jun., R.A., 21 *Wilton-place, Belgrave-square, London.*

1178 A Cymbal Player. The property of *The Duke of Devonshire, K.G.*

1179 Girl and Fawn. The property of *C. W. Pack, Esq., M.P*

1180 Blue Bell (bas relief). The property of *The Earl of Ellesmere, K.G.*

WESTMACOTT, J. S., 14 *St. George's-road, Pimlico.*

1181 The Peri.

WEEKES, H., A.R.A., *Eccleston-st. South, Pimlico.*

1182 A Shepherd.

1183 The Young Naturalist.

1184 Bust of Allan Cunningham.

1185 Professor Sedgwick.

GRAVURE.

ENGRAVINGS.

Engravings.

ATKINSON, T.-L., 45 *Camden-road-Villas, Camden New Town.*

1186 Château de Windsor.

1187 La Paix, d'après *Landseer.*

1188 La Guerre, d'après *Landseer.*

BACON, FREDERICK, 28 *Saint-Paul's-road, Camden-town.*

1189 L'évasion de Carrare, d'après *C. L. Eastlake.*

1190 Le jeune Slender et Anne Page, d'après *A. Calcott.*

1191 Visite inattendue du contrebandier, d'après *D. Wilkie.*

1192 Saint Jean et l'agneau, d'après *Murillo.*

1193 Entrée du prince Charles dans Edimbourg, après la bataille de Preston-Pans, d'après *Duncan.*

BARLOW, T.-O., 5 *Marlborough-terrace, Victoria-road, Kensington.*

1194 Gitana et son enfant, d'après *Philip.*

1195 Une jeune mère et son enfant, d'après *T. Sant.*

1196 Portrait de M. W. Fairbairn, d'après *Westcott.*

BRANDARD, ROBERT, 6 *Campden-hill-Villas, Kensington.*

1197 Le passage du ruisseau, d'après *Turner.*

BURNET, JOHN, *Chelsea.*

1198 Pensionnaires de Chelsea lisant le bulletin d'une victoire, d'après *Wilkie.*

1199 Jeune fille gardant des moutons, d'après *Landseer.*

1200 Le bélier à l'attache, d'après *Landseer.*

1201 Le défi, d'après *Landseer.*

COOKE, W.-B., 9 *Camden-square, Camberwell, Surrey.*

1202 Quatre vues prises sur les côtes d'Angleterre, d'après *Turner.*

1203 Vue prise dans le Colisée à Rome.

COUSINS, SAMUEL, A.R.A., 12 *Regent's-Park-terrace, Gloucester-gate.*

1204 L'abbaye de Bolton au bon vieux temps, d'après *Landseer.*

1205 Le retour de la chasse au faucon, d'après *Landseer.*

1206 Le senfants du marquis d'Abercorn, d'après *Landseer.*

1207 Pie VII, d'après *Wilkie.*

1208 La comtesse Gower et son enfant, d'après *Lawrence.*

1209 La vocation de Samuel, d'après *Sant.*

1210 La défense de Saragosse, d'après *Wilkie.*

1211 Miss Eliza Peel, d'après *Landseer.*

COUSINS, H., 15 *Osnaburgh-street, Regent's-Park.*

1212 Le repos, d'après *Landseer.*

1213 Portrait de feu le grand-juge Tindal.

1214 Portrait du révérend Baptist W. Noel.

DOO, GEORGE T., *Great Stanmore, Middlesex.*

1215 Ecce Homo, d'après *le Corrège.*

1216 Combat, d'après *Etty.*

1217 Il Cristo giovanile, d'après *Raphaël.*

1218 Le duc d'York, lord Eldon; têtes d'enfants, d'après *Lawrence.*

1219 Lady Meade, d'après *Lawrence.*

1220 Gevartius, d'après *Van Dyck.*

1221 Pélerins en vue de Rome, d'après *Eastlake.*

1222 Le lord en exil, d'après *Reynolds.*

1223 Jeune fille avec des fleurs, d'après *Newton.*

1224 John Knox prêchant devant les lords de la congrégation, d'après *Wilkie.*

ATKINSON, T. L., 45 *Camden-road Villas, Camden New Town, London.*

1186 Windsor Castle.

1187 Peace, after *Landseer.*

1188 War, after *Landseer.*

BACON, FREDERICK, 28 *St. Paul's-road, Camden Town.*

1189 The Escape of Carrara, after *Eastlake.*

1190 Master Slender and Anne Page, after *Calcott.*

1191 The Smuggler's Intrusion, after *Wilkie.*

1192 St. John and the Lamb, after *Murillo.*

1193 Prince Charles's entry into Edinburgh after the battle of Preston Pans, after *Duncan.*

BARLOW, T. O., 5 *Marlborough-terrace, Victoria-road, Kensington.*

1194 The Spanish Gypsy Mother, after *Philip.*

1195 Mother and Child, after *Sant.*

1196 Portrait of W. Fairbairn, Esq., after *Westcott.*

BRANDARD, ROBT, 6 *Campden-hill Villas, Kensington.*

1197 Crossing the Brook, after *Turner.*

BURNET, JOHN, *Chelsea.*

1198 Chelsea Pensioners reading the news of a victory, after *Wilkie.*

1199 Lassie herding Sheep, after *Landseer.*

1200 The Tethered Ram, after *Landseer.*

1201 The Challenge, after *Landseer.*

COOKE, W. B., 9 *Camden-square, Camberwell, Surrey.*

1202 Four Views on the Coast of England, after *Turner.*

1203 View in the Coliseum at Rome.

COUSINS, SAMUEL, A.R.A., 12 *Regent's Park-terrace, Gloucester-gate, London.*

1204 Bolton Abbey in the Olden Time, after *Landseer.*

1205 Return from Hawking, after *Landseer.*

1206 Children of the Marquis of Abercorn, after *Landseer.*

1207 Pius the Seventh, after *Wilkie.*

1208 The Countess Gower and Child, after *Lawrence.*

1209 The calling of Samuel, after *Sant.*

1210 The Defence of Zaragossa, after *Wilkie.*

1211 Miss Eliza Peel, after *Landseer.*

COUSINS, H., 15 *Osnaburgh-street, Regent's Park.*

1212 The Refreshment, after *Landseer.*

1213 Portrait of the late Chief Justice Tindal.

1214 Portrait of the Rev. Baptist W. Noel.

DOO, GEO. T., F.E.S., *Great Stanmore, Middlesex.*

1215 Ecce Homo, after *Correggio.*

1216 The Combat, after *Etty.*

1217 Il Cristo Giovanile, after *Raffaelle.*

1218 Duke of York; Lord Eldon; and Nature, after *Lawrence.*

1219 Lady Meade, after *Lawrence.*

1220 Gevartius, after *Vandyck.*

1221 Pilgrims coming in sight of Rome, after *Eastlake.*

1222 The Banished Lord, after *Reynolds.*

1223 Girl with Flowers, after *Newton.*

1224 John Knox preaching before the Lords of the Congregation, after *Wilkie.*

ETCHING CLUB, 18 *Hyde Park-gate South, Kensington.*
1225 Un cadre contenant des gravures à l'eau-forte, sur acier et sur cuivre, par divers membres du club.

GOODALL, E., *Grove-cottage, Albert-street, Regent's-Park.*
1226 Le pont et le palais de Caligula, d'après *Turner.*
1227 Tivoli, d'après *Turner.*

GRAVES, ROBERT, 20 *Grove-terrace, Kentish-town.*
1228 Distillerie clandestine de wisky en Ecosse, d'après *Landseer.*
1229 Portrait de lord Byron, d'après *T. Phillips.*
1230 Interrogatoire de Shakespeare en présence de sir Thomas Lucy, d'après *Harvey.*
1231 La première lecture de la Bible dans la crypte de la vieille église de Saint-Paul, d'après *Harvey.*

GRUNER, L., *Fitzroy-square.*
1232 Madonna dei Ansidei, d'après *Raphaël.*

HOLL, FRANCIS, 40 *Gloucester-road, Regent's-Park.*
1233 Le jour de la majorité, d'après *Frith.*
1234 Griselda, d'après *Elmore.*
1235 Le vicomte Palmerston, d'après *Richmond.*
1236 Le comte d'Ellesmere, K.G., d'après *Richmond.*
1237 Madame H. Beecher Stowe, d'après *Richmond.*

HOLL, WILLIAM, 36 *Ampthill-square, Hampstead-road.*
1238 Une fête anglaise dans le bon vieux temps, d'après *Frith.*
1239 La glaneuse.

HUMPHREYS, WILLIAM, 6 *Southampton-street, Fitzroy-square.*
1240 Sancho et la duchesse, d'après *Leslie.*
1241 La coquette, d'après *Reynolds.*
1242 La Madeleine, d'après *le Corrège.*

LEKEUX, J.-H., 10 *Belgrave-street, New-road.*
1243 Trois petites gravures dans un cadre:—
1. Intérieur de l'église du Temple, à Londres.
2. Intérieur de l'église de Higham-Ferrers, Northamptonshire.
3. Chapiteau du Lys, Saint-Marc, Venise.

1244 Quatre petites gravures dans un cadre:—
1. Fontaine d'Apollon, à Madrid.
2. Chambéry (Savoie).
3. El-Arish.
4. Tyr, vue prise de la mer.

LANDSEER, THOMAS, *Cunningham-place, Saint-John's-Wood.*
1245 Le roi de la vallée, d'après *Sir E. Landseer.*
1246 La nuit, d'après *Sir E. Landseer.*
1247 Le matin, d'après *Sir E. Landseer.*
1248 Passage de daims, d'après *Sir E. Landseer.*

LEWIS, CHAS.-G., 53 *Charlotte street, Portland-place.*
1249 *The retriever*, chien dressé à rapporter, d'après *E. Landseer.*
1250 *The sanctuary*, d'après *Landseer.*
1251 Le ferrage, d'après *Landseer.*
1252 La chasse au faucon, d'après *Landseer.*

LEWIS, F.-C., 53 *Charlotte-street, Portland-place.*
1253 Sa Majesté la reine Victoria, d'après *Winterhalter.*
1254 S. A. R. le prince Albert, d'après *Winterhalter.*
1255 Les filles de M. C.-B. Calmady, d'après *Lawrence.*
1256 Madame John Fairlie, d'après *Lawrence.*

LIGHTFOOT, PETER, 64 *Albert-street, Regent's-Park.*
1257 Sabrina, d'après *Frost.*

MILLER, WILLIAM, 4 *Hope-Park, Edimbourg.*
1258 L'Italie moderne, d'après *Turner.*
1259 Le Rhin, d'après *Turner.*

MELLING, HENRY, 82 *Duke-street, Liverpool.*
1260 Retraite d'un fourgon, à la bataille de Naseby.

OUTRIM, J., 18 *Harrington-st., N.-Hampstead-road.*
1261 Voici l'agneau de Dieu, d'après *Uwins.*
1262 Le déjeuner dans les montagnes d'Ecosse, d'après *Landseer.*
1263 Trois petites gravures dans un cadre, d'après *Landseer.*
1264 Epagneuls, d'après *Landseer.*

POSSELWHITE, JAS., *Dumpton-cottage, Dumpton, Ramsgate.*
1265 M. S. Rogers.
1266 L'honorable T. Grenville.
1267 La belle chocolatière.
1268 P.-P. Rubens.

ETCHING CLUB, 18 *Hyde Park-gate South, Kensington.*
1225 A frame containing etchings on steel and copper by various members of the Club.

GOODALL, E., *Grove Cottage, Albert-street, Regent's Park.*
1226 The Bridge and Palace of Caligula, after *Turner.*
1227 Tivoli, after *Turner.*

GRAVES, ROBERT, 20 *Grove-terrace, Kentish Town.*
1228 Highland illicit Whisky Still, after *Landseer.*
1229 Portrait of Lord Byron, after *T. Phillips.*
1230 Examination of Shakespeare before Sir Thomas Lucy, after *Harvey.*
1231 First reading of the Bible in the Crypt of Old St. Paul's, after *Harvey.*

GRUNER, L., *Fitzroy-square, London.*
1232 Madonna dei Ansidei, after *Raffaelle.*

HOLL, FRANCIS, 40 *Gloucester-road, Regent's Park.*
1233 Coming of Age, after *Frith.*
1234 Griselda, after *Elmore.*
1235 Viscount Palmerston, after *Richmond,*
1236 The Earl of Ellesmere, K.G., after *Richmond.*
1237 Mrs. H. Beecher Stowe, after *Richmond.*

HOLL, WILLIAM, 36 *Ampthill-square, Hampstead-road.*
1238 An English Merry-making in the Olden Time, after *Frith.*
1239 The Gleaner.

HUMPHREYS, WILLIAM, 6 *Southampton-street, Fitzroy-square, London.*
1240 Sancho and the Duchess, after *Leslie.*
1241 The Coquette, after *Reynolds.*
1242 La Maddalena, after *Correggio.*

LEKEUX, J. H., 10 *Belgrave-street, New-road, London.*
1243 Three small Prints in one frame:—
1. Interior of Temple Church, London.
2. Interior of Higham Ferrers Church, Northamptonshire.
3. Lily Capital, St Mark's, Venice.

1244 Four small Prints in one frame:—
1. Fountain of Apollo, Madrid.
2. Chambéry, Savoy.
3. El Arish.
4. Tyre from the Sea.

LANDSEER, THOMAS, *Cunningham-place, St. John's Wood.*
1245 Monarch of the Glen, after *Sir E. Landseer.*
1246 Night, after *Sir E. Landseer.*
1247 Morning, after *Sir E. Landseer.*
1248 Deer Pass, after *Sir E. Landseer.*

LEWIS, CHAS. G., 53 *Charlotte-street, Portland-place.*
1249 The Retriever, after *Sir E. Landseer.*
1250 The Sanctuary, after *Landseer.*
1251 Shoeing, after *Landseer.*
1252 Hawking Party, after *Landseer.*

LEWIS, F. C., 53 *Charlotte-street, Portland-place.*
1253 Her Majesty Queen Victoria, after *Winterhalter.*
1254 His Royal Highness Prince Albert, after *Winterhalter.*
1255 Daughters of C. B. Calmady, Esq., after *Lawrence.*
1256 Mrs. John Fairlie, after *Lawrence.*

LIGHTFOOT, PETER, 64 *Albert-street, Regent's Park.*
1257 Sabrina, after *Frost.*

MILLER, WILLIAM, 4 *Hope-park, Edinburgh.*
1258 Modern Italy, after *Turner.*
1259 The Rhine, after *Turner.*

MELLING, HENRY, 82 *Duke-street, Liverpool.*
1260 Retreat of a Baggage-waggon from the battle of Naseby.

OUTRIM, J., 18 *Harrington-st., N. Hampstead-road.*
1261 Behold the Lamb of God, after *Uwins.*
1262 The Highland Breakfast, after *Landseer.*
1263 Three small Engravings in one frame, after *Landseer.*
1264 Spaniels, after *Landseer.*

POSSELWHITE, JAS., *Dumpton Cottage, Dumpton, Ramsgate.*
1265 S. Rogers, Esq.
1266 The Hon. T. Grenville.
1267 La Belle Chocolatière.
1268 P. P. Rubens.

PRIOR, T.-A., 45 *Arlington-street, Camden-Town.*
1269 Heidelberg, d'après *Turner.*
1270 Zurich, d'après *Turner.*
1271 Quatre gravures, même numéro :—
1. La branche d'or, d'après *Turner.*
2. Grand canal à Venise, d'après *Turner.*
3. Les chevaux en conseil, d'après *Ward.*
4. Vieux moulin, d'après *Ruysdael.*

PYE, JOHN, 42 *Cirencester-place, Fitzroy-square.*
1272 Le temple de Jupiter, à Egine, d'après *Turner.*

1273 Hardrawfall, Yorkshire, d'après *Turner.*
1274 Wyeliffe, Yorkshire, d'après *Turner.*
1275 Ehrenbreitstein, sur le Rhin, d'après *Turner.*

ROBINSON, HENRY, 42 *Harmood-street, Hampstead-road.*
1276 S. M. le roi des Belges.
1277 S. A. R. la princesse Royale et S. A. R. le prince de Galles.
1278 L'amiral sir T.-B. Martin, d'après *Richmond.*
1279 Sir T. Fowell Buxton, d'après *Richmond.*
1280 Le chevalier Bunsen, d'après *Richmond.*
1281 L'évêque d'Oxford, d'après *Richmond*
1282 Sa Grâce le duc de Buceleugh, d'après *Richmond.*
1283 L'archidiacre Hare, d'après *Richmond.*

ROBINSON, J.-H., *New-grove, Petworth, Sussex.*
1284 Portrait de S. M. la reine Victoria, d'après *Partridge.*
1285 Napoléon et Pie VII, d'après *Wilkie.*
1286 Sir Walter Scott.
1287 Saint-Ambroise refuse l'entrée de l'église à l'empereur Théodose, d'après *Van-Dyck.*
1288 La mère et l'enfant, d'après *Leslie.*
1289 La Douzième Nuit, ou Ce qu'il Vous Plaira ; scène tirée de Shakspeare.
1290 La mantille, d'après *Landseer.*
1291 Le loup et l'agneau, d'après *Mulready.*
1292 Le chaperon rouge, d'après *Landseer.*
1293 Bouquetière espagnole, d'après *Murillo.*
1294 Van-Dyck et Rubens.

ROLLS, CHARLES, 30 *South Street-terrace, Rye-lane, Peckham.*
1295 Portrait de feu B. West, P.R.A., d'après *Lawrence.*

1296 L'instant de la victoire, d'après *Fraser.*
1297 Catherine et Petruchio, d'après *Leslie.*
1298 Gravures tirées de livres illustrés.
1299 Gravures tirées de livres illustrés.
1300 Gravures tirées de livres illustrés.

RYALL, HENRY T., 15 *Cheyne-walk, Chelsea.*
1301 Découverte de l'Amérique par Colomb, d'après *Wilkie.*
1302 Il y a encore de la vie dans le vieux chien, d'après *Landseer.*
1303 La glaneuse.

SHENTON, HENRY-C., *Hendon Park-villas, Hendon, Middlesex.*
1304 Richard Ier pardonnant à Bertrand de Gourdon, d'après *Cross.*
1305 Le prêt d'une bouchée, d'après *Mulready.*

SIMMONS, W.-H., 42 *Mornington-pl., Hampstead-rd.*
1306 La vieille, vieille histoire ! d'après *F. Stone.*
1307 "Maintenant je vous dirai ce que nous ferons," d'après *F. Stone.*

STOCKS LUMB, 9 *Richmond-villas, Seven Sisters'-road, Holloway.*
1308 La maîtresse d'école, d'après *Webster.*
1309 La partie de cartes, d'après *Webster.*
1310 L'enfant en prière, d'après *Frith.*
1311 Moses se préparant pour la foire, d'après *Maelise ;* la guerre, d'aprés *Landseer,* et d'autres gravures.
1312 La musicienne.

TURNER, CHARLES, A.E.R.A., 50 *Warren-street, Fitzroy-square.*
1313 Un naufrage, d'après *Turner.*

VERNON, THOMAS, 15 *Clarendon-villas, Notting-hill.*
1314 La Vierge et l'Enfant-Jésus, d'après *Dyce.*
1315 Le premier-né, d'après *Cope.*

WALLIS, R., *Florence-villa, Tottenham, Middlesex.*
1316 Le lac de Lucerne, d'après *Turner.*

WARD, GEORGE-R., 31 *Fitzroy-square, London.*
1317 Le cardinal Wiseman, d'après *Herbert.*
1318 Mehemet-Ali, d'après *Brigstocke.*
1319 Lord Harewood et sa meute, d'après *Grant.*
1320 Dwarkanauth-Tagore, d'après *Say.*

PRIOR, T. A., 45 *Arlington-street, Camden Town.*
1269 Heidelberg, after *Turner.*
1270 Zurich, after *Turner.*
1271 Four subjects in one frame :—
1. Golden Bough, after *Turner.*
2. Grand Canal, Venice, after *Turner.*
3. Council of Horses, after *Ward.*
4. Old Mill, after *Ruysdael.*

PYE, JOHN, 42 *Cirencester-place, Fitzroy-square.*
1272 The Temple of Jupiter in the Island of Egina, after *Turner.*
1273 Hardrawfall, Yorkshire, after *Turner.*
1274 Wyeliffe, Yorkshire, after *Turner.*
1275 Ehrenbreitstein, on the Rhine, after *Turner.*

ROBINSON, HENRY, 42 *Harmood-street, Hampstead-road*
1276 H.M. the King of the Belgians.
1277 H.R.H. the Princess Royal and H.R H. the Prince of Wales.
1278 Admiral Sir T. B. Martin, after *Richmond.*
1279 Sir T. Fowell Buxton, after *Richmond.*
1280 The Chevalier Bunsen, after *Richmond.*
1281 The Bishop of Oxford, after *Richmond.*
1282 His Grace the Duke of Buccleugh, after *Richmond.*
1283 Archdeacon Hare, after *Richmond.*

ROBINSON, J. H., *New-grove, Petworth, Sussex.*
1284 Portrait of Her Majesty Queen Victoria.

1285 Napoleon and Pope Pius VII., after *Wilkie.*
1286 Sir Walter Scott.
1287 The Emperor Theodosius refused admission into the Church, after *Vandyck.*
1288 The Mother and Child, after *Leslie.*
1289 Twelfth Night, or What you Will.

1290 The Mantilla, after *Landseer.*
1291 The Wolf and the Lamb, after *Mulready.*
1292 Riding Hood, after *Landseer.*
1293 Spanish Flower Girl, after *Murillo.*
1294 Vandyck and Rubens.

ROLLS, CHARLES, 30 *South Street-terrace, Rye-lane, Peckham.*
1295 Portrait of the late Sir B. West, P.R.A., after *Lawrence.*
1296 The Moment of Victory, after *Fraser.*
1297 Catherine and Petruchio, after *Leslie.*
1298
1299 Three frames of Book Illustrations.
1300

RYALL, HENRY T., 15 *Cheyne-walk, Chelsea.*
1301 Columbus' discovery of America.

1302 There's life in the old Dog yet, after *Landseer.*

1303 The Gleaner.

SHENTON, HENRY C., *Hendon-Park-villas, Hendon, Middlesex.*
1304 Richard I. forgiving Bertrand de Gourdon, after *Cross.*
1305 The Loan of a Bite, after *Mulready.*

SIMMONS, W. H., 42 *Mornington-pl., Hampstead-rd.*
1306 "The old, old Story," after *F. Stone.*
1307 "Now I'll tell you what we'll do," after *F. Stone.*

STOCKS LUMB, 9 *Richmond-villas, Seven Sisters'-road, Holloway.*
1308 The Dame School, after *Webster.*
1309 The Rubber, after *Webster.*
1310 Infant Prayer, after *Frith.*
1311 Moses preparing for the Fair, after *Maclise ;* War, after *Landseer,* &c.
1312 The Glee Maiden.

TURNER, CHARLES, A.E.R.A., 50 *Warren-street, Fitzroy-square.*
1313 A Shipwreck, after *Turner.*

VERNON, THOMAS, 15 *Clarendon-villas, Notting-hill.*
1314 Virgin and Child, after *Dyce.*
1315 The First-born, after *Cope.*

WALLIS, R., *Florence Villa, Tottenham, Middlesex.*
1316 Lake of Lucerne, after *Turner.*

WARD, GEORGE R., 31 *Fitzroy-square, London.*
1317 Cardinal Wiseman, after *Herbert.*
1318 Mehemet Ali, after *Brigstocke.*
1319 Lord Harewood and Hounds, after *Grant.*
1320 Dwarkanauth Tagore, after *Say.*

Engravings.

WATT, J.-H., 1 *Pilgrim's-lane, Hampstead.*
1321 Le départ du marchand de bestiaux pour le Sud, d'après *Landseer.*
1322 Une basse-cour dans le vieux temps, d'après *Landseer.*

WILLMORE, A., 3 *Francis-street, Regent's-square.*
1323 Maison de pêcheurs, d'après *Danby.*
1324 Deux parures.

WILLMORE, JAMES-T., 23 *Polygon, Somer's Town.*
1325 Vent contre marée, d'apres *Stanfield.*
1326 La partie sur l'eau, d'après *Chalon.*
1327 L'ancienne Italie, d'après *Turner.*
1328 Mercure et Argus, d'après *Turner.*
1329 Temple de Minerve, d'après *Turner.*
1330 Branche d'or, d'après *Turner.*
1331 La moisson dans les montagnes d'Ecosse, d'après *Landseer* et *Calcott.*
1332 Le passage du pont, d'après les mêmes.

WATT, J. H., 1 *Pilgrim's-lane, Hampstead.*
1321 The Drover's Departure for the South, after *Landseer.*
1322 A Court-yard in the Olden Time, after *Landseer.*

WILLMORE, A., 3 *Francis-street, Regent's-square.*
1323 The Fisherman's Home, after *Danby.*
1324 Two engravings in one frame.

WILLMORE, JAMES T., 23 *Polygon, Somer's Town.*
1325 Wind against Tide, after *Stanfield.*
1326 The Water Party, after *Chalon.*
1327 Ancient Italy, after *Turner.*
1328 Mercury and Argus, after *Turner.*
1329 Temple of Minerva, after *Turner.*
1330 Golden Bough, after *Turner.*
1331 Harvest in the Highlands, after *Landseer* and *Calcott.*
1332 Crossing the Bridge, after *Landseer* and *Calcott.*

Wood Engraving.

GRAVURE SUR BOIS.

BRANSTON, C., 21 *Tavistock-terrace, Upper Holloway.*
1333 Diverses gravures dans un cadre.

DALZIEL FRERES, 4 *Camden-street North, Camden Town.*
1334 } Diverses gravures dans quatre cadres.
1335 }

FEMMES-ELEVES DE L'ECOLE NORMALE DES ARTS, *Marlborough House, Pall-mall.*
1337 Etudes sur l'ornementation; style de la Renaissance.

GREEN, W.-T., 27 *Albert-street, Mornington crescent.*
1338 Gravures, d'après *Maclise, Paton, Stanfield, F. W. Hulme, R. S. Lauder, Ansdell, Tayler, Mulready, Cope* et *Stanfield.*

HARVEY, W., *The Vineyard, Richmond, Surrey.*
1339 Dentatus, d'après *Haydon.*

JEWITT, O., *Headington, Oxford.*
1340 Sujets d'architecture et d'archéologie.

JACKSON, M., 13 *Cardington-street, Hampstead-road.*
1341 Divers ouvrages dans un cadre, d'après *Gilbert, Dodgson, Ward, Read.*
1342 Divers ouvrages dans un cadre, d'après *Gilbert, Dodgson, Duncan, Hulme, Read, Goodall.*

LEECH, J.
Divers ouvrages dans un cadre.

LINTON, W.-J., *Lower Calthorpe-street, Grays-inn-road.*
1343 Deux enfants, d'après *Lawrence.*
1344 Fruits, d'après *Linton.*
1345 Gibier, d'après *Lance.*
1346 Brouillard de Londres, d'après *Dodgson.*

MEASOM, W., 46 *Liverpool-street, King's-cross.*
1347 Œuvres diverses.

THOMPSON, J., *Campden-hill-terrace, Kensington.*
1348 Œuvres diverses dans deux cadres, d'après *Mulready, Wilkie, Landseer, Calcott, Vernet, Frost, Maclise, Tayler* et *Lauder.*
1349 Œuvres diverses.

THOMPSON, C.-T., 1 *Campden-hill-terrace, Kensington.*
1350 Ivoires découverts à Nemrod par M. Layard.

WOOD ENGRAVING.

BRANSTON, C., 21 *Tavistock-terrace, Upper Holloway.*
1333 Various Engravings in one frame.

DALZIEL, BROTHERS, 4 *Camden-street North, Camden Town.*
1334 } Various Engravings in four frames.
1335 }

FEMALE STUDENTS OF THE NORMAL SCHOOL OF ART, *Marlborough House, Pall-mall.*
1337 Various Engravings of Renaissance Ornament.

GREEN, W. T., 27 *Albert-street, Mornington-crescent.*
1338 Engravings, after *Maclise, Paton, Stanfield, F. W. Hulme, R. S. Lauder, Ansdell, Tayler, Mulready, Cope,* and *Stanfield.*

HARVEY, W., *The Vineyard, Richmond, Surrey.*
1339 Dentatus, after *Haydon.*

JEWITT, O., *Headington, Oxford.*
1340 Architectural and Archæological Subjects.

JACKSON, M., 13 *Cardington-street, Hampstead-road.*
1341 Various Works in one frame, after *Gilbert, Dodgson, Ward, Read.*
1342 Various Works in one frame, after *Gilbert, Dodgson, Duncan, Hulme, Read, Goodall.*

LEECH, J.
Various works in one frame.

LINTON, W. J., 6 *Lower Calthorpe-street, Gray's-inn-road.*
1343 Children, after *Lawrence.*
1344 Fruit, after *Linton.*
1345 Game, after *Lance.*
1346 London Fog, after *Dodgson.*

MEASOM, W., 46 *Liverpool-street, King's-cross.*
1347 Various Works in one frame.

THOMPSON, J., *Campden-hill-terrace, Kensington.*
1348 } Various Works in two frames, after *Mulready, Wilkie, Landseer, Calcott, Vernet, Frost, Maclise, F. Tayler,* and *Lauder.*
1349 }

THOMPSON, C. T., 1 *Campden-hill-terrace, Kensington.*
1350 Engravings of the beautifully-wrought ivories discovered at Nimroud by Mr. Layard, and now in the British Museum.

Lithography.

LITHOGRAPHIE.

GILES, J.-W., 9 *Russell-terrace, Oakley-square, Saint-Pancras.*
1351 Chasseurs de daims, d'après *Herring.*
1352 Intérieur d'une étable écossaise, d'après *Herring.*
1353 Bétail et moutons, d'après *Cooper.*
1354 Bétail, le soir, d'après *Cooper.*

LANE, R.-J., A.E.R.A., 3 *Osnaburgh-terrace, Regent's Park.*
1355 Choix d'œuvres diverses; dix-huit sujets d'après *Gainsborough, Leslie, Landseer, Lawrence, &c.*
1356 Choix d'œuvres diverses; seize sujets d'après *Gainsborough.*
1357 Vie aristocratique et vie humble, d'après *Landseer.*
1358 Portraits, d'après *Winterhalter, Swinton, Ross.*
1359 Un cadre contenant dix-neuf épreuves, d'après *Lawrence, &c.*
1360 Un chien et des moutons, d'apres *Landseer.*

LITHOGRAPHY.

GILES, J. W., 9 *Russell-terrace, Oakley-square, St. Pancras.*
1351 Deer Stalking, after *Herring.*
1352 Interior of a Scotch Stable, after *Herring.*
1353 Cattle and Sheep, after *Cooper.*
1354 Cattle—Evening, after *Cooper.*

LANE, R. J., A.E.R.A., 3 *Osnaburgh-terrace, Regent's-park, London.*
1355 Miscellaneous Selection (18 subjects), after *Gainsborough, Leslie, Landseer, Lawrence, &c.*
1356 Miscellaneous Selection (16 subjects), after *Gainsborough.*
1357 High and Low Life, after *Landseer.*
1358 Royal Portraits, &c., after *Winterhalter, Swinton, Ross.*
1359 A frame containing 19 Proofs, after *Lawrence, &c.*
1360 A frame containing Colley-Dog and Sheep, after *Landseer.*

Lithography.

LINNELL, JOHN, *Redstone-wood, Reigate.*
1361 Triomphe de Caractacus, d'après *G.-F. Watts.*

LINNELL, I.-T.
1362 Le premier jugement par un jury, d'après *C. W. Cope.*

LINNELL, W., *Redstone-wood, Reigate.*
1363 Le combat du Phare, d'après *H.-J. Townsend.*
1364 Première descente de César en Bretagne, d'après *E. Armitage.*

MAGUIRE, T.-H., 28 *Great Russell-street, Bedford-sq.*
1365 S. M. la Reine, d'après *Winterhalter.*
1366 S. A. R. le prince Albert, d'après *Thorburn.*
1367 S. A. R. le prince Arthur, d'après *Winterhalter.*

1368 S. A. R. la duchesse de Gloucester, d'après *Winterhalter.*
1369 S. A. R. la duchesse de Cambridge, d'après *Winterhalter.*
1370 S. A. S. la grande-duchesse de Baden-Baden, d'après *Winterhalter.*
1371 S. A. R. le prince Albert et S. A. S. le prince de Saxe-Cobourg Gotland, d'après *Thorburn.*

1372 Les trois saluts, sujet tiré du *Bourgeois gentilhomme*, de Molière, d'après *Frith.*
1373 Le dîner, d'après *Frith.*
1374 Sir Roger de Coverley, d'après *Frith.*
1375 Charles Dickens, dans le costume du capitaine Bobadil, d'après *Leslie*
1376 Una effrayée par les faunes et les satyres, d'après *W.-E. Frost.*

LINNELL, JOHN, *Redstone-wood, Reigate.*
1361 Caractacus led in Triumph through Rome, after *G. F. Watts.*

LINNELL, I. T., *Redstone-wood, Reigate.*
1362 The First Trial by Jury, after *C. W. Cope.*

LINNELL, W., *Redstone-wood, Reigate.*
1363 The Fight of the Beacon, after *H. J. Townsend.*
1364 Cæsar's First Invasion of Britain, after *E. Armitage.*

MAGUIRE, T. H., 28 *Great Russell-street, Bedford-sq.*
1365 Her Majesty the Queen, after *Winterhalter.*
1366 His Royal Highness Prince Albert, after *Thorburn.*
1367 His Royal Highness Prince Arthur, after *Winterhalter.*
1368 Her Royal Highness the Duchess of Gloucester, after *Winterhalter.*
1369 Her Royal Highness the Duchess of Cambridge, after *Winterhalter.*
1370 Her Serene Highness the Grand Duchess of Baden Baden, after *Winterhalter.*
1371 His Royal Highness Prince Albert and His Serene Highness the Prince of Saxe Cobourg Gothland, after *Thorburn.*
1372 The Three Bows, from 'Le Bourgeois Gentilhomme,' after *Frith.*
1373 The Dinner Party, after *Frith.*
1374 Sir Roger de Coverley, after *Frith.*
1375 Charles Dickens, Esq., as Captain Bobadil, in 'Every Man in His Humour,' after *Leslie.*
1376 Una Alarmed by the Fauns and Satyrs, after *W. E. Frost.*

CHROMOLITHOGRAPHES.

Chromolithographers.

BOYS, T.-S., *Albany-street, Regent's Park.*
1377 Le beffroi de Gand.
1378 La cathédrale de Laon.

RISDON, C., 40 *King-street, Covent Garden.*
1379 La danse, d'après *Cattermole.*
1380 Colomb, d'après *Cattermole.*
1381 Un porteur de gibier dans les montagnes d'Ecosse, d'apres *Ansdell.*

THOMPSON, J., *King-street, Covent Garden.*
1382 Coucher du soleil sur le Danube, d'après *Bright.*
1383 Camélias, d'après *Robinson.*

CHROMOLITHOGRAPHERS.

BOYS, T. S., 32 *Albany-street, Regent's-park, London.*
1377 The Belfry at Ghent,
1378 The Cathedral of Laon.

RISDON, C., 40 *King-street, Covent-garden, London.*
1379 The Dance, after *Cattermole.*
1380 Columbus, after *Cattermole.*
1381 Highland Gillie, after *Ansdell.*

THOMPSON, J., 40 *King-street, Covent-garden.*
1382 Sunset on the Danube, after *Bright.*
1383 Camellas, after *Robinson.*

CLASSE XXX.
ARCHITECTURE.

Class 30.

Architecture.

ALLEN, C.-B., et DUDGEON, W., *Architectural Museum, Cannon-row, Westminster.*
1384 Projets de façades sur les rues.

ALLOM, T., 103 *St. Martin's-lane, Trafalgar-square.*
1385 Projet d'embellissements pour les bords de la Tamise.
1386 Projet d'embellisements pour les bords de la Tamise près des ponts de Londres et de Blackfriars.

BANKS, R.-R., et BARRY, C., jun., 27 *Sackville street.*
1387 Bylaugh Hall, Norfolk, résidence de M. C. Lombe.

1388 Salle des étoffes tissées (Palais de Cristal).

1389 Dessins pour la bibliothèque et l'escalier, de Dornden, Kent, résidence de M. John Field.

BARRY, sir CHARLES, R.A., 1 *Old Palace-yard, Westminster.*
1390 Bridgewater House (élévation de la partie sud).
1391 Bridgewater House (plan de l'étage principal).
1392 Nouveau palais de Westminster (élévation de la façade sur la Tamise).
1393 Nouveau palais de Westminster (plan de l'étage principal).
1394 Villa de Cliefden, proprieté du duc de Sutherland, Buckinghamshire (élévation de la façade).
1395 Villa de Cliefden (plan de l'étage principal).

BRANDON, R., et RITCHIE, R., 11 *Beaufort-buildings, Strand.*
1396 Eglise de Portswood, près de Southampton.
1397 Eglise catholique apostolique (Gordon-square).
1398 Bains et lavoirs publics, à Greenwich.

CLASS XXX.
ARCHITECTURE.

ALLEN, C. B., and DUDGEON, W., *Architectural Museum, Cannon-row, Westminster.*
1384 Street Architecture.

ALLOM, T., 103 *St. Martin's-lane, Trafalgar-square.*
1385 A Design for improving the Property on the Banks of the Thames.
1386 A Design from another point of view.

BANKS, R. R., and BARRY, C., Jun., 27 *Sackville-street, London.*
1387 Bylaugh Hall, Norfolk, the residence of C. Lombe, Esq.
1388 Crystal Palace—Court for the Exhibition of Woven Fabrics.
1389 Designs for the Library and Staircase Hall at Dornden, Kent, the residence of John Field, Esq.

BARRY, Sir CHARLES, R.A., 1 *Old Palace-yard, Westminster.*
1390 Bridgewater House—South elevation.
1391 Bridgewater House—Plan of principal floor.
1392 New Palace at Westminster—Elevation of river front.
1393 New Palace at Westminster—Plan of principal floor.
1394 Cliefden Villa—Front elevation.

1395 Cliefden Villa—Plan of principal floor.

BRANDON, R., and RITCHIE, R., 11 *Beaufort-buildings, Strand, London.*
1396 Portswood Church, near Southampton.
1397 Catholic Apostolic Church, Gordon-square.
1398 Public Baths and Laundries at Greenwich.

BUNNING, J.-B., *Guildhall.*

1399 Le nouveau marché aux poissons de Billingsgate.
1400 La nouvelle Bourse au charbon.

BURTON, D., 6 *Spring-gardens.*

1401 Entrées de Green Park et de Hyde Park par Piccadilly.
1402 Modèles des entrées ci-dessus.
1403 Athenæum Club, Pall-mall; plans, elévations et coupes.
1404 Le Colosseum, à Londres; plans, coupes et vue perspective; modèle du Colosseum.

BUTTERFIELD, W., 4 *Adam-street, Adelphi.*

1405 Eglise de All Saints, Margaret-street (extérieur, intérieur et plan).

CARPENTER, R.-C., 4 *Carlton-chambers, Regent-street.*

1406 Projet de la cathédrale à ériger à Inverness (Ecosse), pour le diocèse de Moray et Ross; vue extérieure.
1407 Abbaye de Sainte-Marie, à Sherborne; vue intérieure du transept nord restauré.
1408 Abbaye de Sainte Marie, vue intérieure du ehœur en cours de restauration.

CLUTTON, H., 26 *Charles-street, St. James's.*

1409 Salle du chapitre de la cathédrale de Salisbury, en cours de restauration.

COCKERELL, LE PROFESSEUR C.-R., R.A., *Hampstead.*

1410 Monument élevé à la mémoire de Wren.
1411 Songe du professeur.

DAVIES, J., 33 *Great Saint-Helen's.*

1412 Presbytère et campanile de Saint-Martin, Cannon-street.
1413 Synagogue, Great Saint Helen's, à Londres.

DIGWEED, T.-F., 4 *Great Queen-street, Westminster.*

1414 Etude pour uu château dans le style de la renaissance.

DONALDSON, LE PROFESSEUR T.-L., *Bolton-gardens, Russell-square.*

1415 Hallyburton House, Cupar-Angus, N.B.; dessiné pour lord C. Douglas Hallyburton.
1416 Etude d'un temple à la Victoire sous l'empereur Adrien.
1417 Perspective du même monument.
1418 Dessin pour la Bourse de Londres; adopté par le comité en 1841.

FALKENER, E., 21 *Bloomsbury-square.*

1419 Restauration d'un théâtré grec en Asie.
1420 Tombe en Lycie, déeouverte par l'auteur en 1845.
1421 L'Atrium; études sur Pompéia.
1422 Villa maritime; id.
1423 Impluvium; id.
1424 Trielinium; id.
1425 Maison découverte par M. Falkener en 1847; études sur Pompéia.
1426 Vue transversale à travers le double atrium d'une maison de Pompéia; études sur Pompéia.
1427 Introduction des arabesques dans l'ornementation architecturale.
1428 Vue de la grande mosquée d'Adrianople.

FOWLER, CHARLES, 12 *Furnival's-inn.*

1429 Projet d'un pont à Westminster; élévation.
1430 Arche centrale.
1431 Détails.
1432 Asile des fous pour les pauvres, à Devon; plan.
1433 Vue à vol d'oiseau du même édifice.
1434 Plan du marché d'Exeter.
1435 Marché à Exeter; élévation.
1436 Intérieur du marché.
1437 Vue sud-est du marché.
1438 Vue de la partie ouest intérieure.

GABRIEL, S.-B., et HIRST, J. H., *St.-Nicholas'-chambers, Bristol.*

1439 Projet pour une Banque du district ouest de l'Angleterre.

GIBSON, JOHN, 11 *Park-street, Westminster.*

1440 Chapelle de Bloomsbury, Londres.
1441 Siége de la compagnie impériale d'assurance, à Londres.

HAMILTON, THOMAS, R.S.A., 9 *Howe-street, Edimbourg.*

1442 Vue prise du monument de Scott, Prince's-street, Edimbourg, pour expliquer un dessin de galeries d'exposition, approuvées et recommandées aux lords de la Trésorerie par l'Académie royale Ecossaise de peinture, sculpture et architecture.

BUNNING, J. B., *Guildhall, London.*

1399 The New Billingsgate Fish-Market.
1400 The New Coal Exchange.

BURTON, D., 6 *Spring-gardens, London.*

1401 Entrances to the Green Park and Hyde Park from Piccadilly.
1402 Models of the above.
1403 Athenæum Club, Pall Mall—Plans, Elevations, and Sections.
1404 The Colosseum, London—Plans, Sections, and Perspective View; Model of the above.

BUTTERFIELD, W., 1 *Adam-street, Adelphi, London.*

1405 All Saints Church, Margaret-street (Exterior, Interior, and Plan).

CARPENTER, R. C., 4 *Carlton-chambers, Regent-st.*

1406 Exterior View of the Cathedral proposed to be built at Inverness for the Diocese of Moray and Ross.
1407 Abbey Church of St. Mary at Sherborne—Interior of the North Transept, as restored.
1408 Abbey Church of St. Mary at Sherborne—Interior of the Choir, in progress of restoration.

CLUTTON, H., 26 *Charles-street, St. James's, London.*

1409 Chapter House of Salisbury Cathedral, in progress of restoration.

COCKERELL, PROFESSOR C. R., R.A., *Hampstead.*

1410 Wren Testimonial.
1411 Professor's Dream.

DAVIES, J., 33 *Great St. Helen's, London.*

1412 Rectory and Campanile, St. Martin's, Cannon-street.
1413 Jews' Synagogue, Great St. Helen's, London.

DIGWEED, T. F., 4 *Great Queen-street, Westminster.*

1414 Study for a Chateau, in the style of the Renaissanee.

DONALDSON, PROFESSOR T. L., *Bolton-gardens, Russell-square, London.*

1415 Hallyburton House, Cupar-Angus, N.B.; designed for Lord C. Douglas Hallyburton.
1416 Plan of a Design for a Temple to Victory, according to ancient usages, with a view to illustrate all the edifices connected with the sacred games.
1417 Perspective View of ditto.
1418 Design for the Royal Exehange, London. First of the first class selected by the Committee in 1841.

FALKENER, E., 21 *Bloomsbury-square, London.*

1419 Restoration of an Asiatic Greek Theatre.
1420 Tomb in Lycia.
1421 Pompeian Studies—The Atrium.
1422 Pompeian Maritime Villa.
1423 Pompeian Impluvium.
1424 Pompeian Triclinium with Pergula.
1425 Pompeian House, excavated by E. Falkener in 1847.
1426 Pompeian House, Transverse View through Double Atrium.
1427 View showiug the origin of Architectural Arabesque Painting.
1428 View of the Great Mosque at Adrianople.

FOWLER, CHARLES, 12 *Furnival's Inn, London.*

1429 Designs for a Bridge at Westminster—Elevation.
1430 Centre Arch, &c.
1431 Details of ditto.
1432 Lunatic Asylum for Paupers, Devon—Plan.
1433 Bird's-eye View of ditto.
1434 Market at Exeter—Plan.
1435 Elevation of ditto.
1436 Interior of ditto.
1437 South-east View of ditto.
1438 Interior of ditto, from the West End.

GABRIEL, S. B., and HIRST, J. H., *St. Nicholas'-chambers, Bristol.*

1439 Design for the West of England District Bank.

GIBSON, JOHN, 11 *Park-street, Westminster.*

1440 Bloomsbury Chapel, London.
1441 The Imperial Insurance Office, London

HAMILTON, THOMAS, R S.A., 9 *Howe-street, Edinburgh.*

1442 View from the Scott Monument, Prince's-street, Edinburgh, in illustration of a Design for Exhibition Galleries, approved of and recommended to the Lords of the Treasury by the Royal Scottish Academy of Painting, Sculpture, and Architecture.

1443 Projet pour l'église de John Knox, à Castle-Hill, à Edimbourg; vue de la partie sud-est.
1444 Vue de la partie sud-est de l'école supérieure royale, à Edimbourg, et du monument de Burns.

HANSOM, C., 4 *Park-place, Clifton.*
1445 Eglise catholique de Cheltenham, actuellement en construction.

HANSOM, J.-A., *Preston, Lancashire.*
1446 Vue extérieure de l'eglise de St. Walburg, à Preston.
1447 Vue intérieure.

HARDWICK, PHILIP, R.A., 21 *Cavendish-square.*
1448 Salle à manger de l'honorable Société de Lin'oln's-Inn; visite faite par S. M. la reine Victoria lors de l'inauguration de l'édifice, le 30 octobre 1845. Peint par J. Nash.
1449 Hôtel des orfévres; Londres.

HARDWICK, P.-C., 21 *Cavendish-square.*
1450 La grande salle de l'embarcadére du chemin de fer de Londres et North-Western.
1451 Gilston-Park, Londres; vue de la partie nord-ouest.

HENMAN, C., 7 *Millman-street, Bedford-row.*
1452 Dessin pour un nouveau système d'architecture de rue.

HILL, W., *Leeds.*
1453 Hôtel de ville de Preston.

HOPPER, T., 40 *Connaught-terrace, Edgeware-road.*
1454 Cour supérieure et donjon du château de Penrhyn, à Bangor (Galles du Nord).

I'ANSON, E., 9 *Lawrence-Pountney-lane.*
1455 Dessins indiquant ce qu'est une maison de Londres habitée par la classe moyenne.
1456 Dessins explicatifs d'une maison de campagne habitée par la classe moyenne, en Angleterre.
1457 Modèle de l'angle des bâtiments de la Bourse du côté de Cornhill.
1458 Modèle de bâtiments projetés pour l'angle N. W. de Finch-lane, cité de Londres.

JONES, OWEN, 9 *Argyll-place, Regent-street.*
1459 La Salle des Deux-Sœurs (Alhambra); étude.
1460 La salle de Justice (Alhambra); étude.

KENDALL, H.-E., jun., 33 *Brunswick-square.*
1461 Composition architecturale.
1462 Pavillon de chasse, près Carlisle, construit pour M. Hodgson, M.P.

LAMB, E.-B., 26 *Charlotte-street, Portland-place.*
1463 Rendez-vous de chasse, construit pour le marquis de Breadalbane, Loch Tulla, Ecosse.

LOCKYER, J. M., 18 *Southampton-street, Fitzroy-square.*
1464 Magasins de MM. Heal et fils, à Londres.

PAXTON, sir JOSEPH, *Sydenham.*
1465 Vue extérieure du Palais de Cristal, à Sydenham; peint par J.-D. Harding.
1466 Vue extérieure.
1467 Vue intérieure.
1468 Cour de Mentmore-house, Buckinghamshire; construite pour le baron Lionel de Rothschild.

PENROSE, F.-C., M.A., *Trafalgar-square.*
1469 Elévation de la façade ouest de la cathédrale de Lincoln.

POTTER, R.-H., 11 *Henrietta-street, Brunswick-sq.*
1470 Maison d'éducation religieuse, à Bolton-le-Moors.

PRICHARD et SEDDON, *Llandaff, Glamorganshire.*
1471 Dessin d'un château au bord de la mer, près Milford-haven, pour M. G. Kindersley.
1472 Deux vues extérieures et une intérieure d'une église en projet, pour Cardiff, Glamorganshire.

PULLAN, R.-P., 4 *Trafalgar-square.*
1473 Dessin d'un rétable pour autel de cathédrale.

RAILTON, W., 12 *Carlton-chambers, Regent-street.*
1474 Beau-manor, résidence de M. W.-P. Herrick.
1475 Escalier du même.
1476 Sanctuaire de l'église de Bromley, près Londres.
1477 Deux vues de l'intérieur de l'église du village de Meanwood, Yorkshire.
1478 Chapelle du palais de Ripon.

1443 South-east View of John Knox's Church, as proposed to be built on the Castle Hill, Edinburgh.
1444 South-east View of the Royal High School, Edinburgh, and the Burns Monument.

HANSOM, C., 4 *Park-place, Clifton.*
1445 Catholic church now being erected at Cheltenham.

HANSOM, J. A., *Preston, Lancashire.*
1446 Exterior view of the church of St. Walburge, Preston.
1447 Interior, ditto.

HARDWICK, PHILIP, R.A., 21 *Cavendish-sq., London.*
1448 The Dining-room of the Honourable Society of Lincoln's Inn on the occasion of H. M Queen Victoria visiting the Society, on opening the Hall, 30th October, 1845. Painted by J. Nash.
1449 Goldsmiths' Hall, London.

HARDWICK, P. C., 21 *Cavendish-square, London.*
1450 The Great Hall of the London Terminus of the London and North-Western Railway.
1451 Gilston Park, N.W. view.

HENMAN, C., 7 *Millman-st., Bedford-row, London.*
1552 Design for a new system of Street Architecture.

HILL, W., *Leeds.*
1453 Preston Town Hall.

HOPPER, T., 40 *Connaught-terrace, Edgeware-road.*
1454 Upper Court and Keep of Penrhyn Castle, at Bangor, N. Wales.

I'ANSON, E., 9 *Lawrence Pountney-lane, London.*
1455 Drawings illustrative of a London House, as inhabited by the middle classes in England.
1456 Drawings illustrative of a Country House, as inhabited by the middle classes in England.
1457 Model of the Cornhill corner of the Royal Exchange Buildings.
1458 Model of intended buildings at the N.W. corner of Finch-lane, City of London.

JONES, OWEN, 9 *Argyll-place, Regent-street, London.*
1459 Study of the "Hall of the Two Sisters," in the Alhambra.
1460 Study of the "Hall of Justice," in the Alhambra.

KENDALL, H. E., JUN., 33 *Brunswick-sq, London.*
1461 Architectural Composition.
["A vast metropolis with glistering spires,
With theatres, basilicas, adorned,
A scene of light and glory."—ROGERS.]
1462 Mansion, Carlisle, Cumberland, erected for E. N. Hodgson, Esq., M.P.

LAMB, E. BUCKTON, 26 *Charlotte-st., Portland-place.*
1463 Shooting-lodge, erected for the Marquis of Breadalbane, Loch Tulla, Scotland.

LOCKYER, JAS. MOUNT, 18 *Southampton-street, Fitzroy-square, London.*
1464 Elevation of business premises for Messrs. Heal and Son, London.

PAXTON, SIR JOSEPH, *Sydenham.*
1465 View of the exterior of the Crystal Palace, Sydenham. Painted by J. D. Harding.
1466 Exterior view.
1467 Interior view.
1468 Court of Mentmore House, Buckinghamshire; erected for Baron Lionel Rothschild.

PENROSE, F. C., M.A., 4 *Trafalgar-square, London.*
1469 Elevation of the West Front of Lincoln Minster.

POTTER, R. H., 11 *Henrietta-street, Brunswick-square.*
1470 Church Educational Institution at Bolton-le-Moor.

PRICHARD and SEDDON, *Llandaff, Glamorganshire.*
1471 Design for a Marine Chateau near Milford Haven. for G. Kindersley, Esq.
1472 Two exterior and one interior views of a Church designed for Cardiff, Glamorganshire.

PULLAN, R. P., 4 *Trafalgar-square, London.*
1473 Design for a Cathedral Altar Screen.

RAILTON, W., 12 *Carlton-chambers, Regent-st., London.*
1474 Beau Manor, the residence of W. P. Herrick, Esq.
1475 Staircase of ditto.
1476 Chancel of Bromley Church, near London.
1477 Two views of the Interior of the Village Church of Meanwood, Yorkshire.
1478 Chapel of Ripon Palace.

Architecture.

SALVIN, A., 30 *Argyll-street, Regent-street.*

1479 Salle à manger et autres constructions du collége de Caius, Cambridge.
1480 Modèle du château de Peckforton, Cheshire, résidence de M. John Tollemache, M.P.

SCOLES, J.-J., 58 *Pall Mall.*

1481 Chapelle du St-Sacrement dans l'église de l'Immaculée-Conception, Farm-street, Londres.
1482 Façade de la même chapelle.

SCOTT, G.-G., 20 *Spring-gardens.*

1483 Intérieur du chœur de la cathédrale d'Ely, tel qu'il vient d'être restauré.
1484 Vue de la partie S.-E. de l'église de St-Nicholas, à Hambourg, actuellement en construction.
1485 Intérieur de la même église.
1486 Restauration de la salle du chapitre à l'abbaye de Westminster.
1487 Dessin d'un nouvel hôtel de ville et de la chambre du Sénat, à Hambourg.
[Ce dessin a obtenu le premier prix.]
1488 Rétable de la cathédrale d'Ely.

SHARPE, E., *Lancastre.*

1489 Six dessins expliquant l'histoire de l'architecture anglaise.
1490 Quatre gravures, ornements de croisées.
1491 Quatre gravures, ornements de croisées.

SHAW, H., 37 *Southamptom row.*

1492 Une coupe allemande.
1493 Poêle funèbre appartenant à la *Compagnie des marchands de poissons* de Londres.

SLATER, W., 12 *John-street, Adelphi.*

1494 Vue de la partie S.E. d'une cathédrale destinée à l'Australie du Sud.

SMIRKE, S., A.R.A., 79 *Grosvenor-square.*

1495 Modèle d'un nouveau salon de lecture projeté pour le Musée Britannique.

SMITH, W.-J., *Office of Works, Whitehall.*

1496 Kiosque construit sur le Bosphore pour le sultan.

TITE, W., 17 *St. Helen's place, Bishopsgate.*

1497 Dessins des travaux projetés par Inigo Jones, architecte, comprenant le Palais-Royal à Whitehall.

WHITE, W., 39 *Great Marlborough street.*

1498 Elévation de l'extérieur de l'église de All-Saints, Kensington-Park.
1499 Elévation de l'intérieur et de l'extérieur d'une travée de la même église.

WORTHINGTON, T., 54 *King-street, Manchester.*

1500 Projet d'église.

WYATT, T.-H., 77 *Great Russell-street*

1501 Intérieur de l'église de Saint-Dewis, Flint.
1502 Collége de St-Aidan, Birkenhead, Cheshire, en construction.
1503 Eglise de St-Nicholas et Ste-Marie, érigée à Wilton pour le très honorable Sidney Herbert, M.P.
1504 Modèle par M. S. Salter.
1505 Institution des ingénieurs civils dans Great George-street (Londres).
1506 Modèle par M. S. Salter.

WYATT, DIGBY, 54 *Guildford-street.*

1507 Vue intérieure de la cour de Pompéia au Palais de Cristal (Sydenham).
1508 Vue de l'église supérieure du monastère de San-Benedetto, à Subiaco (Etats-Romains).
1509 Façades des salles des beaux-arts du Palais de Cristal (département de l'art chrétien).

1510 L'Arc de Titus, à Rome.
1511 Loggia de la cour italienne (Palais de Cristal).

SALVIN, A., 30 *Argyll-street, Regent-street, London.*

1479 Dining-room and other buildings, Caius College, Cambridge.
1480 Model of Peckforton Castle, Cheshire, the seat of John Tollemache, Esq., M.P.

SCOLES, J. J., 58 *Pall-mall, London.*

1481 Chapel of the Blessed Sacrament in the Church of the Immaculate Conception, Farm-street, London.
1482 Façade of ditto.

SCOTT, G. G, 20 *Spring-gardens, London.*

1483 Interior of the Choir of Ely Cathedral, as recently renewed.
1484 South-east view of the Church of St. Nicholas, at Hamburg, now being erected.
1485 Interior of ditto.
1486 Restoration of the Chapter House at Westminster Abbey.
1487 Design for which the first premium has been adjudged for the New Town Hall and Senate House at Hamburg.
1488 New Rere-dos of Ely Cathedral, presented by J. D. Gardner, Esq.

SHARPE, E., *Lancaster.*

1489 Three Drawings exhibiting the History of English Architecture.
1490 } Four engravings, window ornaments.
1491 }

SHAW, H., F.S.A. 37 *Southampton Row, London.*

1492 A German Beaker.
1493 A Funeral Pall belonging to the Fishmongers' Company of London.

SLATER, W., 12 *John-street, Adelphi, London.*

1494 South-east View of a Cathedral designed for South Australia.

SMIRKE, S., A.R.A., 79 *Grosvenor-square, London.*

1495 Model of the new reading-room about to be erected at the British Museum.

SMITH, W. J., *Office of Works, Whitehall, London.*

1496 Kiosk erected on the Bosphorus for the Sultan.

TITE, W., 17 *St. Helen's-place, Bishopsgate, London.*

1497 A Collection of Works designed by Inigo Jones, Architect, including the Royal Palace, Whitehall.

WHITE, W., 39 *Great Marlborough-street, London.*

1498 Elevation of the Exterior of All Saints Church, Kensington Park.
1499 Elevation of the Interior and Exterior of one Bay of the same Church.

WORTHINGTON, T., 54 *King-street, Manchester.*

1500 Design for a Church.

WYATT, T. H., 77 *Great Russell-street, London.*

1501 Interior of St. Dewis' Church, Flint.
1502 St. Aidan's College, Birkenhead, Cheshire; now erecting.
1503 Church of St. Nicholas and St. Mary, erected at Wilton for the Right Hon. Sidney Herbert, M.P.
1504 Model by S. Salter.
1505 Institution of Civil Engineers in Great George-street, London.
1506 Model by S. Salter.

WYATT, DIGBY, 54 *Guildford-street, London.*

1507 View of the Exterior of the Pompeian Court of the Crystal Palace, Sydenham.
1508 View of the Upper Church of the Monastery of San Benedetto at Subiaco.
1509 Façades of the entire series of the Fine Arts, Courts of the Crystal Palace, Sydenham (Department of Christian Art).
1510 Arch of Titus, at Rome.
1511 Loggia of the Italian Court, Crystal Palace.

BRITISH COLONIES.

The Catalogue of the Colonial Productions will be published as soon as it is completed.

20th June, 1855.

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The whole of these Goods, and every variety of them, are supplied, *at the Makers' published Prices*, by WILLIAM DRAY and Co., Agricultural Engineers, London.

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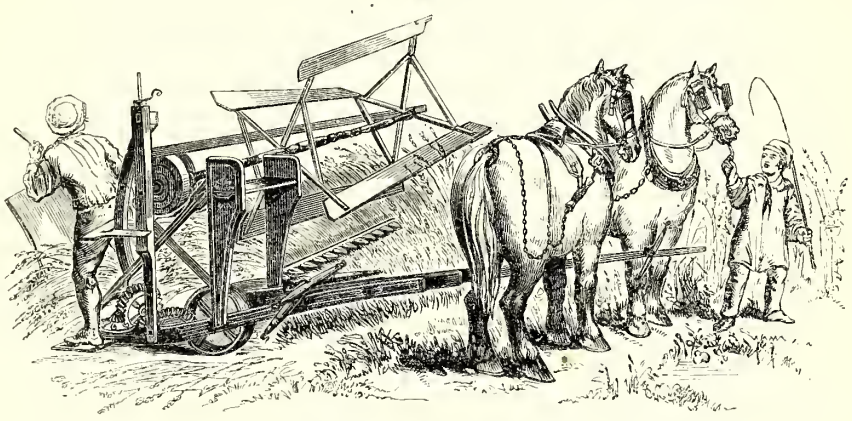
W. DRAY et C^IE, Ingénieurs de l'Agriculture, à Londres, peuvent fournir tous ces ustensiles et machines et toutes les variétés de chaque espèce aux prix publiés des matières premières.



McCormick's Reaping Machine.

132

REAPING MACHINE.
Known as McCormick's.
Price, 35*l*.

132

MACHINE À RÉCOLTER.
Qui porte le uom de McCormick.
Prix, 875 fr.

AMERICAN CHURN.

This Machiue will be supplied of any size required.

PRICES :—	£.	s.	d.
Churu to make 3 lbs. of Butter	1	10	0
,, 4 ,, ...	1	12	0
,, 6 ,, ...	2	0	0
,, 8 ,, ...	2	2	0
,, 10 ,, ...	2	5	0
,, 12 ,, ...	2	10	6
,, 14 ,, ...	2	15	0
,, 18 ,, ...	3	0	0
,, 20 ,, ...	3	3	0

MACHINE AMÉRICAINE À BATTRE LE BEURRE.

On peut en fournir de toutes dimensions.

PRIX :—	fr.	c.
Machine pour faire 3 livres de Beurre . .	37	50
,, 4 ,, . .	40	0
,, 6 ,, . .	50	0
,, 8 ,, . .	52	50
,, 10 ,, . .	56	25
,, 12 ,, . .	63	10
,, 14 ,, . .	68	75
,, 18 ,, . .	75	0
,, 20 ,, . .	79	75

GUTTA-PERCHA TUBING.

This Article may be had of any size and any degree of strength as may be required.

The annexed Prices are for Tubes of medium thickness.

PRICES :—	s.	d.	
½ inch diameter . . .	0	5	per foot.
¾ inch ,, . . .	0	7½	,,
1 inch ,, . . .	0	10½	,,
1¼ inch ,, . . .	1	0	,,
1½ inch ,, . . .	1	4	,,
2 inch ,, . . .	1	11	,,
2¼ inch ,, . . .	2	4	,,
2½ inch ,, . . .	2	6	,,
3 inch ,, . . .	2	11	,,

TUBES EN GUTTA PERCHA.

On peut se procurer cet article de quelque dimension et de quelque degré de force que ce soit.

Les prix suivants s'appliquent aux tubes de moyenne épaisseur.

PRIX :—	fr.	c.	
½ pouce de diamètre . .	0	50	par pied.
¾ ,, . .	0	75	,,
1 ,, . .	1	05	,,
1¼ ,, . .	1	25	,,
1½ ,, . .	1	40	,,
2 ,, . .	2	35	,,
2¼ ,, . .	2	90	,,
2½ ,, . .	3	10	,,
3 ,, . .	3	60	,,

133

BALL's IRON PLOUGH.
Price, 4*l.* 14*s.*

LIGHT WAGGON.
Price, 40*l.*

133

CHARRUE EN FER [DE BALL.]
Prix, 117 fr. 50 c.

WAGGON LÉGER.
Prix, 1,000 fr.

134

BARRETT and CO.'s STEAM-ENGINE, for fixture.

May be had for any amount of Power, as enumerated below.

PRICES, including BOILER and FURNACE :—

3-horse power	£105
4-horse do.	125
5-horse do.	150
6-horse do.	170
8-horse do.	198
10-horse do.	250
12-horse do.	282

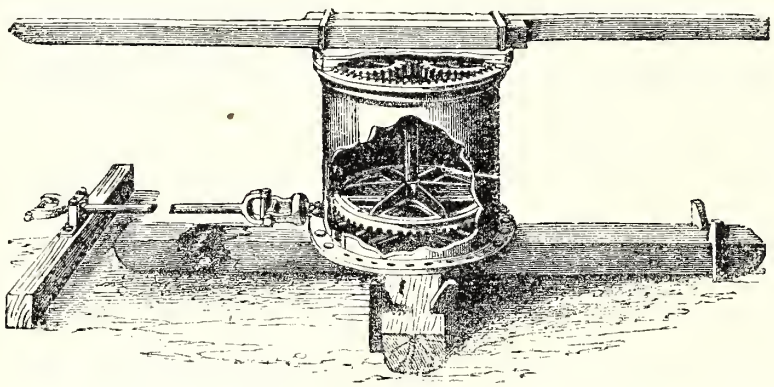
134

MACHINE À VAPEUR POUR ETRE À POSTE FIXE DE BARRETT et C^IE.

On peut l'obtenir de quelque force que ce soit d'après les prix ci-après marqués.

PRIX, y compris la CHAUDIÈRE et le FOURNEAU :—

De la force de 3 chevaux	fr. 2,500
,, 4 ,,	3,125
,, 5 ,,	3,750
,, 6 ,,	4,250
,, 8 ,,	5,310
,, 10 ,,	6,250
,, 12 ,,	7,050



BARRETT and CO.'s PATENT SAFETY HORSE GEAR.

This may be had fitted for from One to Six Horses.

PRICES :—	£.	s.
Gear-work for 1 horse	12	0
,, 2 horses	14	0
,, 3 horses	18	10
,, 4 horses	22	0
,, 5 horses	24	0
,, 6 horses	27	0

Draft-Poles fitted with Whippletrees, 15*s.* each extra.

These Horse Gears being entirely encased in an iron cylinder, may be exposed in any weather without fear of injury.

HARNAIS À L'ÉPREUVE PATENTÉ DE BARRETT et C^IE.

On en fournit pour un cheval ou pour plusieurs chevaux

PRIX :—	fr.
Harnais complet pour 1 cheval	300
,, 2 chevaux	350
,, 3 ,,	462
,, 4 ,,	560
,, 5 ,,	600
,, 6 ,,	675

Brancards garnis de palonniers, 18 fr. extra chaque.

Ces harnais étant entièrement recouverts d'un cylindre en fer, peuvent être exposés à toutes les températures sans se gâter.

BARRETT and CO.'s PATENT HAND-POWER THRASHING-MACHINE.

PRICES :—	£.	s.
With 16-inch Drum	15	15
With 18-inch do.	16	16

If supplied with Feed-Boards (which also serve as a packing-case), 1*l.* 10*s.* extra.

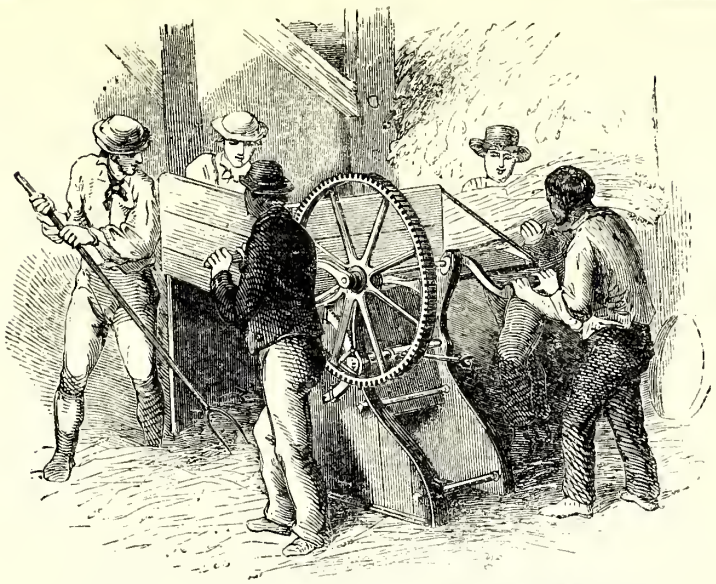
(*For Engraving, see p.* 3.)

MACHINE À BRAS PATENTÉE POUR BATTRE LE BLÉ, chez BARRETT et C^IE.

PRIX :—	fr.	c.
Avec un tambour de 16 pouces	393	75
,, 18 ,,	419	20

Si l'on y joint un appareil d'alimentation qui sert aussi de caisse d'emballage, 37 fr. 50 c. extra.

(*Voir p.* 3 *pour le Dessin.*)



Barrett and Co.'s Patent Hand-power Thrashing-Machine.

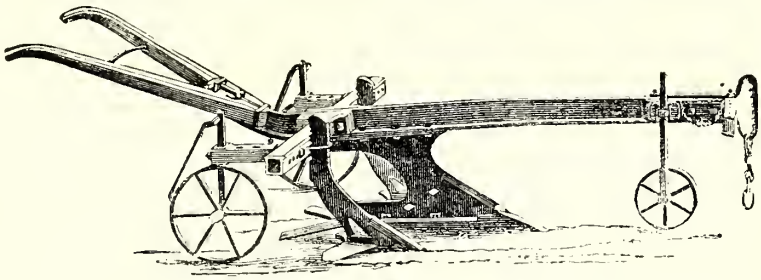
BARRETT and CO.'s IMPROVED BARLEY HUMMELLER, constructed of Iron.

This Machine brightens the grain and breaks off the haulm, which it separates and carries away with the light Barley, leaving a perfect sample.

Price, 5*l.* 5*s.*

APPAREIL PERFECTIONNÉ POUR DONNER LE DERNIER APPRET À L'ORGE, DE BARRETT et C^IE^, et construit en fer.

Cette machine rend le grain brillant enlève la barbe qu'il sépare et emporte avec l'orge léger, et ne laisse qu'un échantillon parfait. Prix, 131 fr. 25 c.



135

BENTALL's PATENT BROADSHARE PLOUGH, for Paring or Cleaning Stubbles after Harvest.

Prices :—	£.	*s.*	*d.*
Constructed with wood beam . .	4	14	6
Ditto with iron beam . .	5	5	0

The same Machine may be had fitted to serve as a Sub-soil Plough as well as Broadshare. This Implement is used in England to an immense extent for both purposes.

Prices :—	£.	*s.*	*d.*
Constructed with wood beam . .	6	6	0
Ditto with iron beam . .	6	16	6

135

CHARRUE À LARGE COUTRE PATENTÉE DE BENTALL, pour nétoyer ou enlever les éteules après la moisson.

Prix :—	fr.	c.
Avec flèche en bois . . .	117	50
„ en fer . . .	131	25

La même machine peut être arrangée de manière à servir à faire des sillons profonds ; elle est employée aux deux fins dans presque toutes les parties de l'Angleterre.

Prix :—	fr.	c.
Avec flèche en bois . . .	157	50
„ en fer . . .	170	60

136

BIGG's PATENT SHEEP-DIPPING APPARATUS, with iron-bar Drainer.

Price, 5*l.*

The Lotion, or Specific, to be applied by the above Apparatus, for the Cure of Scab in Sheep, with directions for use, may be obtained of Wm. Dray and Co.

Price, 6*d.* per pound.

One pound is enough for five Sheep.

136

APPAREIL PATENTÉ DE BIGG POUR PLONGER LES MOUTONS, avec égouttoir à barre de fer.

Prix, 125 fr.

La Lotion, ou le Spécifique qui s'applique par le moyen de l'appareil ci-dessus pour la guérison de la gale des moutons, se trouve, avec la manière de s'en servir, chez W. Dray et C^ie^.

Prix, 60 c. la livre.

Une seule livre suffit pour six moutons.

137

BUSBY's GENERAL-PURPOSE PLOUGH, for which several Prizes have been awarded by the Royal Agricultural Society of England.

Price, complete, with Wheels, 4*l.* 10*s.*

Extra for Steel Breast, 10*s.*

BUSBY's TWO-WHEELED PLOUGH, for very strong land. This Plough is capable of working 12 inches deep.

Price, 5*l.* 5*s.*

BUSBY's TWO-WHEELED LIGHT PLOUGH, similar in construction to the General-Purpose Plough.

Price, 4*l.* 5*s.*

BUSBY's LIGHT PLOUGH without WHEELS.

Price, 3*l.* 10*s.*

137

CHARRUE À TOUTES FINS DE BUSBY. Elle a obtenu plusieurs prix de la Société d'Agriculture d'Angleterre.

Prix, complète, avec les roues, 112 fr. 50 c.

Avec le tourne-sillons en acier, 12 fr. 50 c. extra.

CHARRUE DE BUSBY À DEUX ROUES pour les terres très fortes ; elle peut creuser à 12 pouces de profondeur.

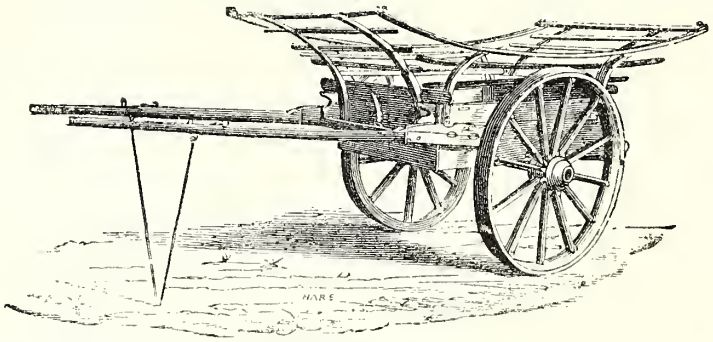
Prix, 131 fr. 25 c.

CHARRUE LÉGÈRE DE BUSBY, À DEUX ROUES, d'une construction semblable à la Charrue à toutes fins.

Prix, 106 fr. 25 c.

CHARRUE LÉGÈRE DE BUSBY SANS ROUES.

Prix, 87 fr. 50 c.



BUSBY's PRIZE CART, for which several Prizes have been awarded by the Royal Agricultural Society of England.

Prices :—

	£.	*s.*	*d.*
With Wheels 3 inches wide, and Harvest Shelvings, complete .	14	15	0
With Wheels 4 inches wide, and Harvest Shelvings, complete .	15	15	0

If fitted with Rack and Pinion for Tipping, 15*s.* extra.

CHARRIOT DE BUSBY, qui a obtenu plusieurs Prix de la Société Royale d'Agriculture d'Angleterre.

Prix :—

	fr.	c.
Avec des roues de 3 pouces de large et des oreilles pour empiler les gerbes, complet	367	50
Avec des roues de 4 pouces de large et des oreilles pour empiler les gerbes, complet	393	75
Si l'on y adapte une crémaillère et un pignon pour empiler . . .	18	75 ex.

138

CLAYTON, SHUTTLEWORTH, and CO.'s FIXTURE STEAM-ENGINE.

Prices, including Boiler, &c. :—

4-horse power Engine . . .	£130	
6-horse do. . . .	175	
8-horse do. . . .	210	
10-horse do. . . .	260	
12-horse do. . . .	310	
14-horse do. . . .	360	

CLAYTON, SHUTTLEWORTH, and CO.'s COMBINED THRASHING, SHAKING, RIDDLING, and WINNOWING MACHINE. The Royal Agricultural Society of England awarded the Prize to this Machine at their last Annual Show.

The Improved Machines make Four complete Separations, viz., the Corn, Straw, Chaff, and the Pulse or Cavings. The Chaff is, of course, most valuable for feeding purposes, especially Barley Chaff, when perfectly separated from extraneous matter.

Price, fitted complete, with the new Patent Drum-Beaters, Barley Horner and Elevators, and with wood travelling Wheels, 103*l.*

138

MACHINE À VAPEUR FIXE DE CLAYTON, SHUTTLEWORTH et C^IE.

Prix, y compris la Chaudière, &c. :—

De la force de 4 chevaux	fr.	3,750
„ 6 „		4,375
„ 8 „		5,250
„ 10 „		6,530
„ 12 „		7,750
„ 14 „		9,000

MACHINE COMPLEXE DE CLAYTON, SHUTTLEWORTH, et C^IE, servant à battre le blé, le secouer, le vanner et le lier. La Société Royale d'Agriculture d'Angleterre a accordé le Prix à cette machine lors de la dernière Exposition.

Les machines perfectionnées forment quatre séparations, à savoir : le blé, la paille, la balle, et le déchet. La balle est comme de raison très précieuse pour article de nourriture, surtout la pellicule de l'orge quand elle est dégagée de toute matière étrangère.

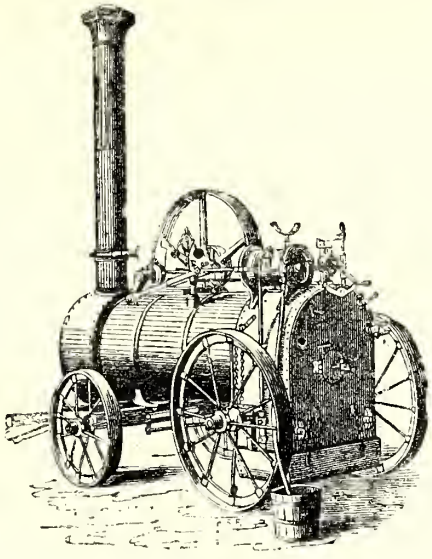
Prix : on les rend complètes en y adaptant des battants de tambour patentés des cornets à orge et des roues en bois, 2,575 fr.

Extra for Apparatus fitted to winnow the Corn twice over, and Elevator for putting it into sacks after the second blowing, 5*l*.

The Exhibitors make a similar Machine, without their recent Improvements, and without Barley Horner and Elevators, price 85*l*.

Avec un appareil adapté pour vanner le blé deux fois, et des courroies sans fin pour le mettre en sac après la séconda opération, 125 fr.

Les Exposants font une machine semblable sans leurs perfectionnements récents et sans cornets à orge, prix 2,125 fr.



CLAYTON, SHUTTLEWORTH, and CO.'s PORTABLE STEAM-ENGINE.

This Engine may be had of any power, from 4 to 10 horse. PRICES :—

4-horse power Engine . . .	£175
5-horse do. . . .	190
6-horse do. . . .	210
7-horse do. . . .	230
8-horse do. . . .	250
10-horse do. . . .	285

CLAYTON, SHUTTLEWORTH, and CO.'s GRINDING MILL.

PRICES :—

Fitted with 2 ft. 8 in. Derbyshire grey stones,	£48
Ditto, with French bed stone, grey runner .	50
Ditto, with French stones	55

MACHINE À VAPEUR PORTATIVE DE CLAYTON, SHUTTLEWORTH et C^IE.

La force de cette machine peut varier depuis quatre jusqu'à six chevaux. PRIX :—

	fr.
Machine de la force de 4 chevaux . .	4,375
,, ,, 5 ,, . .	4,750
,, ,, 6 ,, . .	5,250
,, ,, 7 ,, . .	5,750
,, ,, 8 ,, . .	6,250
,, ,, 10 ,, . .	7,125

MOULIN À BROYER DE CLAYTON, SHUTTLEWORTH et C^IE.

PRIX :—

	fr.
Garni de pierres grises du Derbyshire de 2 pieds 8 pouces	1,200
Avec une pierre française au-dessous et une pierre volante grise	1,250
Avec pierres françaises	1,375

139

COLEMAN's PATENT CULTIVATOR.

(*For Engraving, see p.* 6.)

This Implement is also called a Drag Harrow or Scarifier.

It is used for breaking-up, cleaning land, and also for paring.

For all these purposes the Machine is in great repute in England. Prizes have been awarded to the Manufacturers by various Agricultural Societies.

The Implement may be had of various sizes, and constructed either of Cast or Wrought Iron.

PRICES :—Made of CAST IRON.	£.	s.	d.
Cultivator, with 5 prongs	7	0	0
Do. with 7 prongs	9	0	0
Do. with 5 prongs and side levers for regulating the depth in the ground	8	0	0
Do. with 7 prongs and side levers	10	10	0

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LE CULTIVATEUR PATENTÉ DE COLEMAN.

(*Voir p.* 6 *pour le Dessin.*)

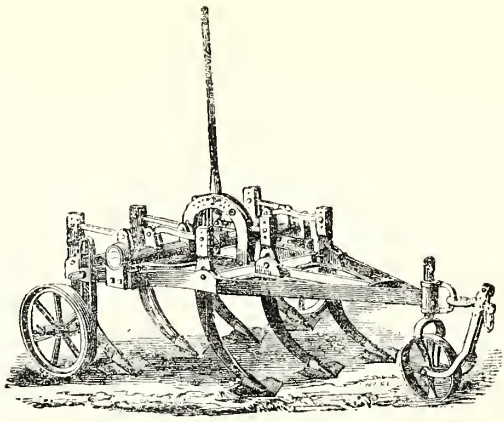
Cet ustensile se nomme aussi herse de trait ou scarificateur.

On s'en sert pour briser la terre, la nétoyer et encore pour ratisser.

Pour tous ces usages la machine est en grande réputation en Angleterre, et plusieurs Sociétés d'Agrieulture ont accordé des Prix aux fabricants.

On peut s'en procurer de toutes grandeurs en fer coulé ou forgé.

PRIX :—En FER COULÉ.	fr.	c.
Cultivateur à 5 fourchons	175	0
,, 7 ,, ...	225	0
,, 5 ,, avec des leviers de côté pour régler la profondeur du terrain .	200	0
,, 7 fourchons avec leviers de côté	262	50



Coleman's Patent Cultivator.

Made of Wrought Iron.	£.	*s.*	*d.*
Cultivator, with 5 prongs	8	0	0
Do. with 7 prongs	13	0	0
Do. with 5 prongs and side levers	10	0	0
Do. with 7 prongs and side levers	15	0	0

En Fer Forgé.	fr.
Cultivateur, 5 fourchons	200
„ 7 „	325
„ 5 „ avec les leviers de côté	250
„ 7 fourchons et leviers de côté	375

COLEMAN's PATENT SUBSOIL PLOUGH.

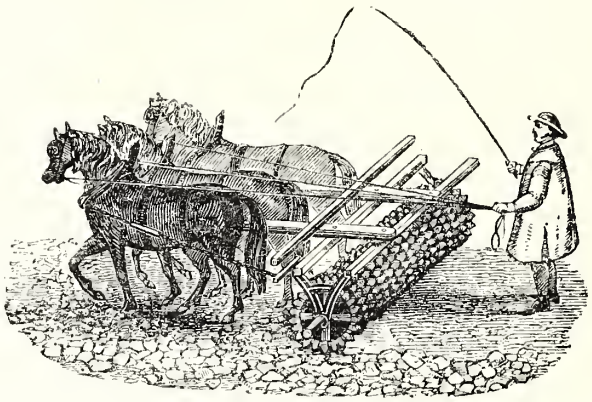
The two prongs, united by the frame-work above and the connecting-bar at the bottom, will rise or fall to the depth required by means of the lever, and, forming a parallel, the same degree of inclination may be preserved, at whatever depth the implement is worked; the hind wheels may be reversed to work in the furrow after the Plough, or extended to run on each side of the furrow.

Price, 5*l.* 10*s.*

CHARRUE PATENTÉE DE COLEMAN, POUR LE SECOND LABOUR.

Les deux dents contenues par le train et la barre inférieure s'élèvent ou tombent à la profondeur voulue, par le moyen du levier, et comme elles forment une parallèle, le même degré d'inclinaison peut être conservée quelle que soit la profondeur à laquelle on enfonce l'instrument; les roues de derrière peuvent être retournées pour travailler dans le sillon après la charrue, ou séparées afin de rouler de chaque côté du sillon.

Prix, 137 fr. 50 c.



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CROSSKILL's PATENT CLOD-CRUSHER, or SERRATED ROLLER.

This machine is almost universally adopted in England for the following purposes: for *Rolling Growing Crops*, for *Crushing Clods*, for *Consolidating Light Lands*, and for *Stopping the Wireworm and the Grub.*

A great many Prizes have been awarded to the Manufacturer by various Societies, including the Royal Agricultural Society of England.

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MACHINE PATENTÉE POUR ÉCRASER LES MOTTES, OU ROULEAU DENTELÉ.

On s'en sert presque partout en Angleterre dans les cas suivants: *pour passer au rouleau la récolte croissante, pour écraser les mottes de terre, pour consolider un terrain léger et pour arrêter le charençon et le ver.*

Cette machine a obtenu un grand nombre de Prix de diverses Sociétés, y compris la Société Royale d'Agriculture d'Angleterre.

Prices :—	£.	s.	d.
Clod-Crusher, 5 ft. 6 in. long, without travelling wheels	17	0	0
Ditto, the same size, with travelling wheels	19	0	0
Ditto, 6 ft. long	18	10	0
Ditto, the same size, with travelling wheels	20	10	0
Ditto, 6 ft. 6 in. long	20	0	0
Ditto, the same size, with travelling wheels	22	0	0

If with double shafts, 1*l.* extra.

When this Implement is required for use on *hill sides*, Crosskill's Improved Clod-Crusher with self-cleaning parts, is recommended. The Roller parts are of varying diameter, namely 24 inches and 27 inches; these occur alternately. They are so fitted on the axle that they find a common level on the ground-line; and thus, in constantly shifting their relative positions, become self-cleaning.

Prices :—	
Improved Clod-Crusher, 5 ft. long	£14
Ditto, the same size, with travelling wheels	16
Ditto, 5 ft. 6 in. long	15
Ditto, the same size with travelling wheels	17

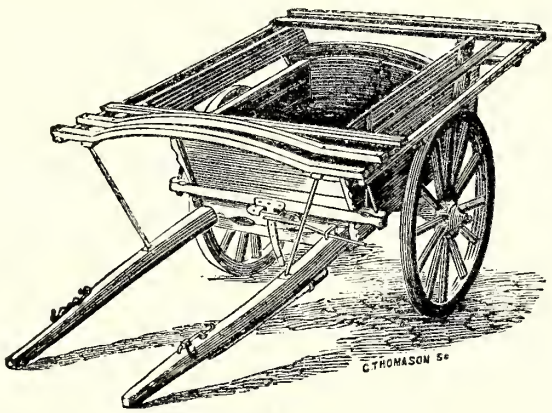
Prix :—	fr.	c.
Rouleau à écraser les mottes, 5 p. 6 pouces de long, sans roues adhérentes	425	0
Rouleau à écraser les mottes, même dimension, avec les roues adhérentes	475	0
Rouleau de 6 pieds de long	462	50
,, Le même, avec roues adhérentes	512	50
,, 6 p. 6 pouces de long	500	0
,, Le même, avec les roues adhérentes	550	0

Avec des brancards doubles, 25 fr. extra.

Quand on se sert de cet instrument sur le côté d'une colline, on fera bien d'employer le rouleau à écraser les mottes de Crosskill, qui se nétoie soi-même.

Les parties du rouleau ont divers diamètres, par ex.: 24 pouces et 27 pouces, ces proportions alternant. Elles sont fixées sur l'essieu, de manière à se trouver de niveau avec le terrain, et ainsi en changeant continuellement de position relative opèrent d'elles-même le nétoyage de la machine.

Prix :—	fr.
Rouleau à mottes perfectionné, 5 p. de long.	350
,, Le même, avec roues adhérentes.	400
,, ,, de 5 p. 6 pouces de long	375
,, ,, avec des roues adhérentes	425



CROSSKILL's IMPROVED CART.

This may be had light or strong, according to the weight of the loads it is required to carry. The difference is made principally in the strength of the wheels.

Prices :—

ONE-HORSE CARTS, AS HARVEST CARTS, &c.

	£.	s.	d.
Prize Newcastle Cart, with Harvest Shelvings complete, as a "Model" Cart, to carry 25 cwt., tire 2½ by ⅝	14	5	0
Prize Yorkshire Cart, to carry 25 cwt., tire 4 by ½	14	15	0
Prize Exhibition Cart, with Harvest Shelvings or loose Harvest Raves, to carry 30 cwt., tire 2½ by ¾	15	15	0

CHARRETTE PERFECTIONNÉE DE CROSSKILL.

On peut l'avoir légère ou solide, d'après le poids des fardeaux qu'elle doit porter. La différence principale existe surtout dans la force des roues.

Prix :—

CHARRETTES À UN CHEVAL, TELLES QUE CHARRETTES POUR LA MOISSON, &c.

	fr.	c.
Charrette (Prix de Newcastle) avec oreilles ou rallonges en usage pendant la moisson, semblable à une "charrette modèle," portant 2,500; bande de 2½ sur ⅝	356	25
Idem (Prix du Yorkshire), portant 2500, bande de 4 sur ½	368	75
Charrette (Prix de l'Exposition), avec les rallonges en usage durant la moisson, ou oreilles portant 3000, bande de 2½ sur ¾	393	75

	£.	s.	d.
Prize Newcastle Cart, with Harvest Shelvings, to carry 30 cwt., broad wheels, tire 4½ by ⅝	17	0	0
If with patent axles and oil boxes, extra	1	5	0
Crosskill's new patent Ball Navcs and improved Mail Axles, extra . . .	1	10	0

CROSSKILL's CART WHEELS and AXLES.

Prices :—

	£.	s.	d.
Wheels with tires 2 in. by ½ in., axle 2 in., to carry 20 cwt.	5	15	0
Ditto, with tires 2½ in. by ⅝ in., axle 2¼ in., to carry 25 cwt.	6	16	0
Ditto, with tires 4 in. by ½ in., axle 2¼ in., to carry 25 cwt.	7	7	0
Ditto, with tires 4½ in. by ⅝ in., axles 2½ in., to carry 30 cwt.	8	15	0

Note.—A complete List of Prices of Wheels, &c., comprising every variety and degree of strength, will be supplied gratis on application to Mr. Crosskill, or his Agents, Wm. Dray and Co., Agricultural Engineers, &c., Swan Lane, London.

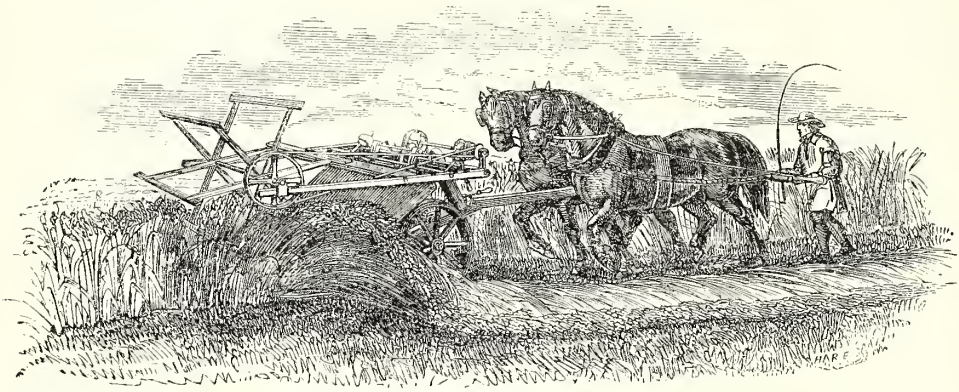
	fr.	c.
Charrette (Prix de Newcastle), avec rallonges portant 3000, larges roues, bande de 4½ sur ⅝	425	0
Avec des essieux patentés et des boîtes à l'huile, extra	31	25
Avec de nouv. patenté de Crosskill et des essieux perfectionnés, extra	37	50

ROUES DE CHARRETTES ET ESSIEUX DE CROSSKILL.

Prix :—

	fr.	c.
Roues avec jantes de 2 pouces à 2 p. ½, avec jantes de 2 p., portant 2000 .	143	75
Idem, 2½ à 2⅝, jantes 2 p. ¼, portant 2500	170	0
Idem, 4 p. à 4½, jantes 2¼, portant 2500	183	75
Idem, 4½ à 4 p. ⅝, jantes 2 p. ½, portant 3000	218	75

Note.—Une Liste complète des Prix des Roues, &c., comprenant toutes les variétés et les degrés de force de ces objets, sera donnée gratis à ceux qui la demanderont à M. Croskill, ou ses agents W. Dray et Cie, Ingénieurs de l'Agriculture, Swan Lane, London.



BELL's REAPING-MACHINE.

Manufactured by Crosskill.

This is one of the competing machines, the varying fortunes of which have tended to keep the whole agricultural community in a *furor* during each harvest time, for several years past.

Various Prizes have been awarded for this Implement by English Agricultural Societies, including one by the Royal Society in the year 1853.

Price, 45*l.*

CROSSKILL's PRIZE ARCHIMEDIAN ROOT-WASHING MACHINE.

Price, 5*l.* 10*s.*

CROSSKILL's NORWEGIAN HARROW.

Price, 16*l.* 16*s.*

MACHINE À RÉCOLTER DE BELL.

Fabriquée par Crosskill.

C'est là une des machines qui depuis plusieurs années ont excité la concurrence, et dont les fortunes diverses ont tenu tous les agriculteurs dans un état de *fureur* pendant le temps de la moisson.

Plusieurs Prix ont été accordé à cette machine par des Sociétés Anglaises d'Agriculture, y compris la Société Royale en 1853.

Prix, 1,125 fr.

MACHINE ARCHIMÉDIENNE POUR LAVER LES RACINES, inventée par Crosskill.

Prix, 137 fr. 50 c.

HERSE NORWÉGIENNE DE CROSSKILL.

Prix, 422 fr. 50 c.

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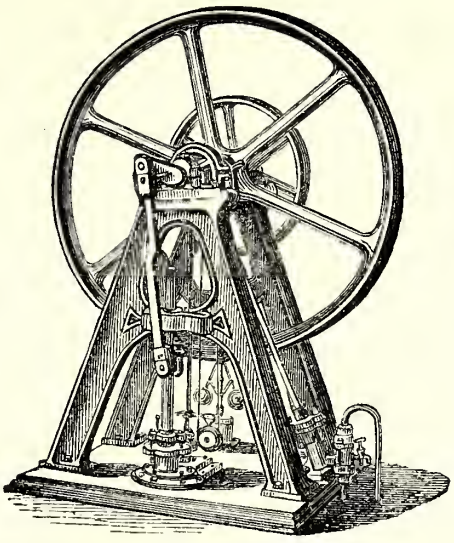
WILLIAM DRAY AND CO.'S PRIZE FIXTURE STEAM ENGINE.

The Royal Agricultural Society of England awarded the 10*l.* Prize to Wm. Dray and Co. at their last annual meeting at Lincoln, July, 1854.

This Engine is constructed upon an iron-bed plate, occupying but small space, may be laid down without difficulty, being complete in itself, and the whole of its parts are extremely easy of access. It has a vertical cylinder, and is thus rendered more durable and less liable to get out of order, than those on the horizontal principle.

The following are the dimensions of the 6-horse power Engine (the one which obtained the Royal Society's Prize): The cylinder is 8 in. in diameter, and has a 14-in. stroke; the crank-shaft is of the best wrought-iron, 3 in. in diameter, and makes 90 to 100 revolutions per minute; the fly-wheel is 71¼ in. in diameter, weighs 8½ cwt., and can be used as driving-pulley if required.



W. Dray and Co.'s Prize Fixture Steam-Engine.

Description of Boiler.—The boiler is 10 ft. long, 3 ft. 3 in. diameter, with an internal flue of 1 ft. 10½ in. diameter; is made of the best Staffordshire plate ⅜ in. thick, rivets ⅝ in. diameter and 2 in. apart. It is fitted with a 3 in. safety-valve, water-guage, blow-off cock, furnace door dead-plate, fire bars, back-bridge, flue doors and damper, and an apparatus for heating the feed-water.

Prices :—

The Prize Engines without Boilers.

3-horse power Engine	. . .	£64
4-horse do.	. . .	75
6-horse do.	. . .	110
8-horse do.	. . .	125
10-horse do.	. . .	140
12-horse do.	. . .	170
14-horse do.	. . .	190
20-horse do.	. . .	220
30-horse do.	. . .	300

The Prize Engines with Boilers, fitted with furnace door dead-plate, fire bars, back-bridge, flue doors and damper, complete.

3-horse power Engine	. . .	£104
4-horse do.	. . .	125
6-horse do.	. . .	170
8-horse do.	. . .	208
10-horse do.	. . .	255
12-horse do.	. . .	300
14-horse do.	. . .	330
20-horse do.	. . .	420
30-horse do.	. . .	580

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MACHINE A VAPEUR FIXE DE W. DRAY ET Cie. (PRIX.)

La Société Royale d'Agriculture d'Angleterre a accordé un Prix de 10*l.* à Wm. Dray et C^ie, dans sa dernière réunion annuelle à Lincoln en juillet 1854.

Cette machine est construite sur un lit de fer occupant peu d'espace et pouvant être descendue sans difficulté; elle est complète, et il est facile d'approcher de toutes ses parties. Elle a un cylindre vertical, ce qui la rend plus durable et l'expose moins à se de ranger que celles qui sont d'une construction horizontale.

Voici les instructions qui se rapportent à la machine de la force de 6 chevaux (celle qui a obtenu le prix de la Société Royale).

Le cylindre a 8 p. de diamètre et chaque coup est d'un poids de 14 p. L'arbre de la manivelle est fait du meilleur fer forgé, il a 3 p. de diamètre et fait de 90 à 100 révolutions par minute. La roue volante a 7 p. ½ de diamètre, pèse 850 liv., et peut être employée comme poulie pour guider si cela est néeessaire.

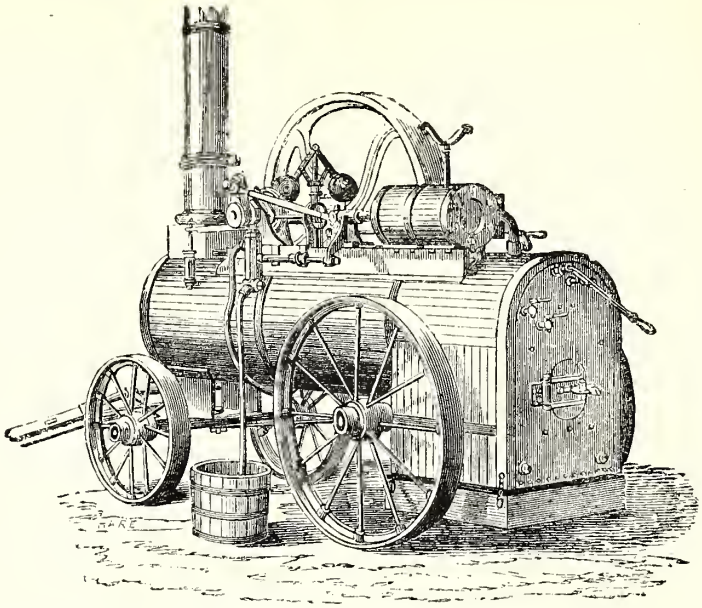
Description de la chaudière.—La chaudière a 10 pieds de long, 3 p. 3 pouces de diamètre avec une cheminée intérieure de 1 p. 10 p. ½; elle est faite des meilleures plaques de fer du Staffordshire de ⅜ pouce d'épaisseur, des boulons de ⅜ pouce de diamètre et 2 pouces en dehors. Elle est pourvue d'une soupape de sureté de 3 pouces, d'un hydromètre, d'un robinet, d'une plaque dormante de la porte du fourneau, grille, porte de la cheminée et étoufloir, et un appareil pour chauffer l'eau alimentaire.

Prix des Machines à Vapeur sans chaudières, qui ont eu un Prix :—

Machine de la force de	3	chevaux	fr. 1,600
,,	4	,,	. 1,875
,,	6	,,	. 2,750
,,	8	,,	. 3,125
,,	10	,,	. 3,500
,,	12	,,	. 4,250
,,	14	,,	. 4,750
,,	20	,,	. 5,500
,,	30	,,	. 7,500

Les Machines à Vapeur (qui ont eu un Prix) munies de chaudières.

De la force de	3	chevaux	. fr. 2,600
,,	4	,,	. . 3,125
,,	6	,,	. . 4,250
,,	8	,,	. . 5,200
,,	10	,,	. . 6,375
,,	12	,,	. .
,,	14	,,	. . 7,125
,,	20	,,	. . 10,750
,,	30	,,	. . 14,500



WILLIAM DRAY and CO.'s PORTABLE STEAM-ENGINES.

The Portable Engines built by Wm. Dray and Co. are extremely simple in principle and very durable.

In consumption of fuel they are very economical, the quantity of coal averaging (according to quality) from 4 lbs. to 7 lbs. per horse-power per hour. In many cases the refuse wood about the farm will be sufficient to *keep up* the steam after it has been raised by a coal fire.

The Boilers of these Engines are covered with hair felt, cased over with wood and jointed with iron; this prevents the escape of heat, and consequently economizes fuel, &c. The Engines are supplied with all necessary fittings and appliances, including a set of stoker's tools, and are mounted on either wood or iron wheels, as preferred.

Prices :—

Fitted either with wood or iron wheels.

4-horse power	Engine,	complete,	£165
5-horse	do.	do.	190
6-horse	do.	do.	210
8-horse	do.	do.	245
10-horse	do.	do.	265
12-horse	do.	do.	310

WILLIAM DRAY and CO.s PATENT PRIZE HUSSEY REAPING-MACHINE.

The Royal Agricultural Society of England awarded the Prize to Wm. Dray and Co. for this Machine at their last annual meeting at Lincoln, July, 1854. Various other Agricultural Societies also awarded Prizes to Wm. Dray and Co. for the same during the past year. In all, Four Money Prizes and One Medal during the year. Many other Prizes have been obtained by this Machine in previous years.

MACHINES À VAPEUR PORTATIVES DE WM. DRAY ET C^IE.

Les machines à vapeur portatives de Wm. Dray et C^IE sont construites d'après un principe fort simple, et sont très durables.

Elles économisent le combustible ; elles n'exigent, en moyenne, que de 4 à 7 livres de charbon (d'après sa qualité) par heure pour obtenir la force équivalente à celle d'un cheval. Dans beaucoup de cas le bois qui traîne aux alentours d'une ferme suffit pour entretenir la vapeur après qu'elle a été produite par le feu de charbon.

Les chaudières de ces machines sont couvertes de feutre de crin encaissé dans du bois et ajusté avec du fer.

Ceci empêche l'évaporation de la chaleur et comme de raison économise le combustible, &c. Ces machines sont livrées avec tous les accessoires nécessaires, y compris un assortiment d'instruments de chauffeur, et on les monte sur des roues en bois ou en fer ad libitum.

Prix :—

Avec des roues en fer ou en bois.

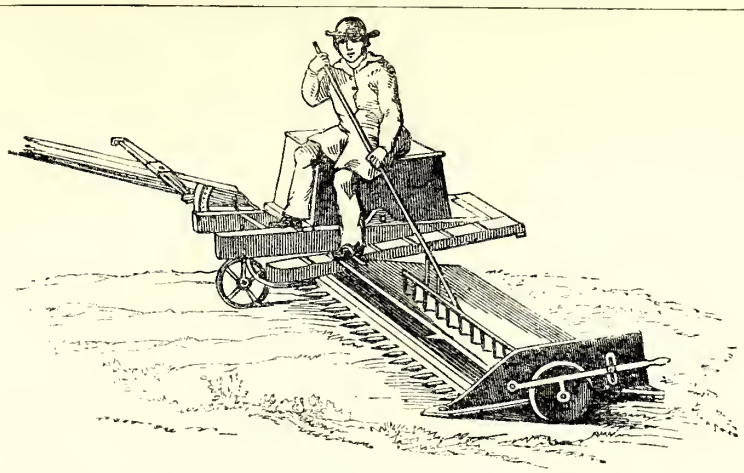
Machine complète de la force de		4	chevaux,	fr. 4,125
,,	,,	5	,,	4,750
,,	,,	6	,,	5,250
,,	,,	8	,,	6,125
,,	,,	10	,,	6,625
,,	,,	12	,,	7,750

MACHINE À RÉCOLTER DE HUSSEY, PAR W. DRAY ET C^IE.

(Patente et Prix.)

La Société Royale d'Agriculture d'Angleterre a accordé le Prix à Wm. Dray et C^IE pour cette machine, à l'assemblée annuelle à Lincoln, en juillet 1854.

Diverses autres Sociétés d'Agriculture ont aussi accordé des Prix l'année dernière à Wm. Dray et C^IE pour cette même machine. En tout, quatre Prix en argent et une Medaille pendant l'année. Les années précédentes cette machine avait aussi obtenu plusieurs autres Prix.



William Dray and Co.'s Prize Reaping-Machine.

Much excitement has prevailed among all classes of the agricultural community, at each successive harvest, since the year of the Great Exhibition in London, by the close and unceasing competition of the three Reaping Machines, known respectively as Hussey's, Bell's, and McCormick's. The great improvements made, however, by WM. DRAY and CO. on the American Reaper, introduced by Mr. Hussey in England and known by his name, have at length secured for it the first place in public estimation.

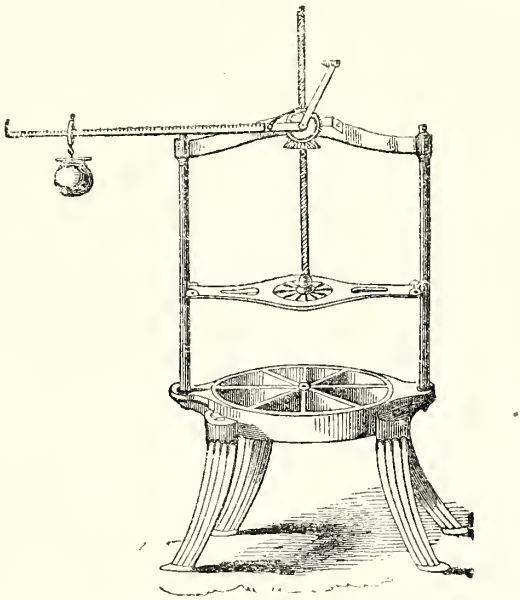
WM. DRAY and Co. have published a most interesting History of Hussey's Reaping Machine, which may be obtained *gratis* on application.

Price of WM. DRAY and Co.'s Patent Hussey Reaping Machine, with all the recent improvements, 25*l.*

Depuis la grande Exposition de Londres, la concurrence continue des machines à récolter, connues alors respectivement sous les noms de Hussey, Bell, et McCormick, a produit à l'époque de chaque nouvelle récolte, une vive sensation dans toutes les classes de cultivateurs. Cependant le grand perfectionnement fait par WM. DRAY et C^IE, à la machine amérieaine introduite en Angleterre par M. Hussey, et qui porte son nom, lui a à la fin assuré la première place dans l'opinion du public.

WM. DRAY et C^IE ont publié une notice très intéressante sur la machine à récolter de M. Hussey, et ils la donnent gratis à ceux qui la demandent.

Prix de la machine à récolter de Hussey, patentée, et avec tous les perfectionnements nouveaux, 625 fr.



WM. DRAY AND CO.'s IMPROVED CHEESE PRESS.

This is a compound-lever press, with a powerful lathe-turned screw. The leverage causes a *continuous* pressure upon the cheese. Price, 4*l.* 10*s.*

* WM. DRAY AND CO.'s SMALLEST SIZE RISING-MOUTH CHAFF-CUTTER.

This is an excellent machine for small stables, &c. It may be worked by a boy. Price, 4*l.*

PRESSE PERFECTIONNEÉ POUR PRESSER LE FROMAGE, PAR W. DRAY ET C^IE.

C'est une presse à levier complexe avec une forte vis faite au tour. L'effet du levier opère une pression continuelle sur le fromage. Prix, 112 fr. 50 c.

HACHE-PAILLE DE LA PLUS PETITE DIMENSION, DE WM. DRAY ET C^IE.

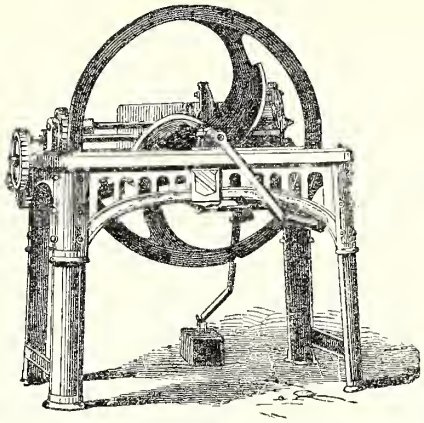
C'est une excellente machine pour de petits éteules, &c. Un enfant pourrait le manœuvrer. Prix, 100 fr.

* WM. DRAY AND CO.'s CHAFF-CUTTER,

Marked No. 1 *a*, is provided with Richmond and Co.'s patent safety toothed rollers, to bring forward the feed without liability to choke. Price, 5*l*.

HACHE-PAILLE DE W. DRAY et C^IE,

Marqué N° 1*a*, garni de rouleaux à dents profondes, patentés, de Richmond, pour ramener en avant le fourrage sans qu'il y ait engorgement. Prix, 125 fr.



* WM. DRAY AND CO.'s No. 3 CHAFF-CUTTER, as represented in this engraving, is built entirely of iron, and is therefore particularly firm when in use. This important quality is wanting in all wood-framed machines, which are, of course, liable to contraction.

This machine is also provided with Richmond and Co.'s safety toothed rollers. One man will cut with this machine 20 bushels of chaff per hour.

Price, 7*l*. 7*s*.

* WM. DRAY AND CO.'s No. 4 MACHINE is of precisely the same construction, but is large enough to be driven by steam or other power; it may also be used by hand.

Price, 10*l*.

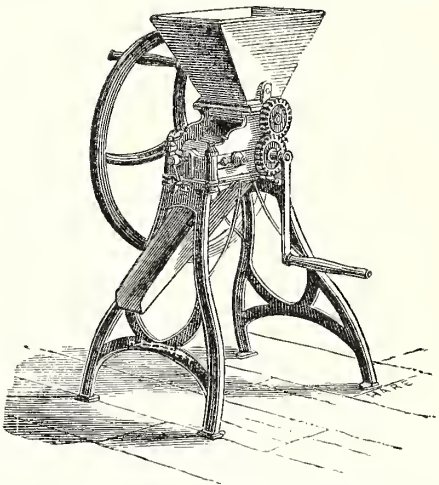
Various prizes have been awarded for these machines by the Agricultural Societies of England.

LE HACHE-PAILLE, N° 3, DE W. DRAY ET C^IE, tel que le représente la vignette, est entièrement construit en fer, et pour cette raison reste très ferme pendant qu'on s'en sert. Cet avantage si important manque dans toutes les machines montées sur bois, qui sont sujettes à se contracter.

Cette machine est aussi pourvue de rouleaux à dents profondes et à l'épreuve de Richmond et C^ie. Un homme peut couper vingt boisseaux de paille à l'heure. Prix, 183 fr. 75 c.

* La Machine N° 4 de W. DRAY et C^IE est exactement de même construction, mais est assez grande pour être mise en action par la vapeur ou toute autre force. On peut aussi l'employer comme machine à bras. Prix, 250 fr.

Plusieurs Prix ont été accordés à cet instrument par les Sociétés agronomiques d'Angleterre.



* WM. DRAY AND CO.'s CORN-BRUISING MACHINE.

"Two bushels of bruised Oats will afford as much nutrition as three in their natural state."

* WM. DRAY and Co. make several kinds of Bruising Mills, increasing in perfection according to price. They are constructed for bruising Oats, Beans, Peas, Indian Corn, &c.

* MACHINE À ÉCRASER LE GRAIN, DE WM. DRAY ET C^IE.

"Deux boisseaux d'avoine écrasée offre autant de parties nutritives que trois boisseaux à l'état naturel."

* WM. DRAY et C^IE font diverses sortes de moulins à écraser le grain, et dont le prix augmente en raison de leur perfection. Ils sont faits exprès pour écraser l'avoine, les fèves, les pois et le maïs.

PRICES :—

MILLS to be worked by Hand.

	£.	s.
*Post Mill	2	10
Mill marked O	4	4
Mill No. 1, as represented in the engraving	5	10
Mill No. 2 (same make)	7	0

MILLS to be worked by Steam or other Power.

	£.	s.
Mill No. 2	7	0
Pulley for power, 10s. extra.		
Mill No. 3 (will bruise about 20 bushels per hour)	10	10
Pulley for power, 10s. extra.		

Various Prizes have been awarded for these machines by the Agricultural Societies of England.

PRIX :—

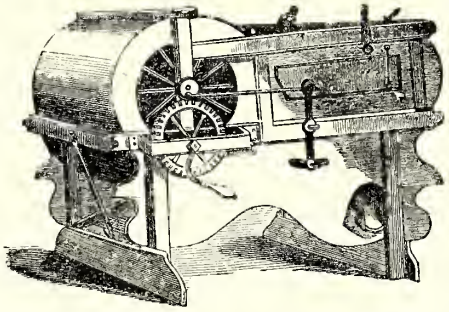
Moulins à bras.

	fr.	c.
Moulin	62	50
Moulin marqué O	105	0
Moulin N° 1, tel que le représente le dessin	137	50
Moulin N° 2 (même construction)	175	0

Moulins à faire mouvoir par la vapeur ou toute autre force.

	fr.	c.
Moulin N° 2	175	0
Poulie pour employer la vapeur à volonté	12	0 ex.
Moulin N° 3 écrase environ 20 boisseaux par heure	262	50
Poulie d'adjonction	12	50 ex.

Divers Prix ont été accordés à ces machines par plusieurs Sociétés d'Agriculture d'Angleterre.



* WM. DRAY AND CO.'s PATENT COMBINED WINNOWING AND BLOWING MACHINE.

This implement is capable of cleaning about twice as much Corn as any other machine, in a given time, and that in the most perfect manner. WM. DRAY and Co. have a great number of testimonials from gentlemen who have their machines in use, and all speak in the very highest terms of them.

Various Prizes have been awarded by the Agricultural societies of England, &c.

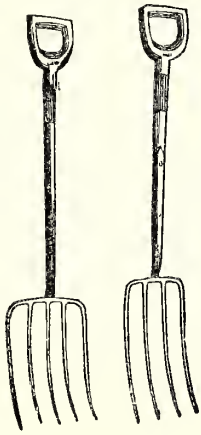
PRICES :—	£.	s.
No. 1	10	10
No. 2	11	11

* WM. DRAY AND CO.'s IMPROVED STEEL DIGGING FORKS.

These Forks are fast superseding the spade for all digging purposes. Their very appearance is a warranty for the ease with which they perform their work. They are very light in the hand, and enter the ground with half the labour of the spade. It is not too much to say, that a man will get through nearly a double amount of work with WM. DRAY and Co.'s Steel Digging Fork; and when he has once used this implement, he will never return to the spade if he can help it.

The Royal Agricultural Society of England have awarded three Prizes for the Steel Digging Forks.

PRICES :—	s.	d.
3-prong Steel Digging Fork	4	6
4-prong ,, ,,	5	6
5-prong ,, ,,	6	6
6-prong ,, ,,	7	6



MACHINE COMPLEXE ET PATENTÉE POUR VANNER ET EVENTER de W. DRAY et C^IE.

Cette apparcil peut nettoyer deux fois autant de grain que toute autre machine dans un temps donné, et cela de la manière la plus complète. WM. DRAY et C^IE ont un grand nombre d'attestations de personnes qui emploient ces machines, et elles témoignent hautement de leur mérite.

Elles ont obtenu plusieurs Prix des Sociétés d'Agriculture d'Angleterre, &c.

PRIX :—	fr.	c.
N° 1	262	50
N° 2	288	75

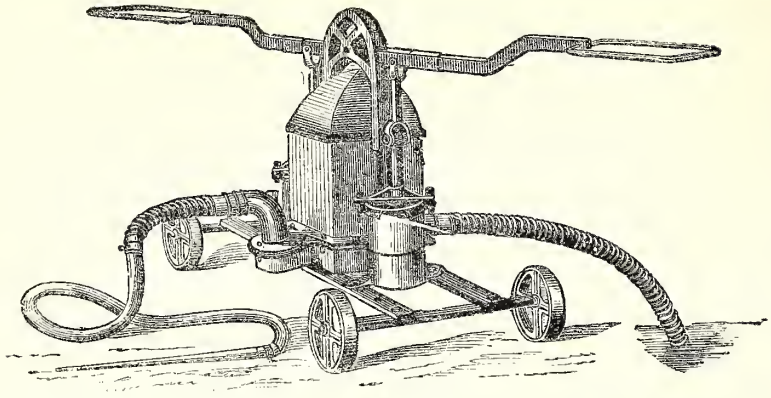
FOURCHES À BECHER FAITES EN ACIER ET PERFECTIONNEES PAR W. DRAY et C^IE.

Ces fourches remplacent presque partout l'usage de la bêche. On juge en les voyant que leur emploi doit être facile. Elles sont légères à la main et pénètrent dans le terrain avec moitié moins d'effort que la bêche. Ce n'est pas trop dire qu'un homme peut faire avec ces fourches le double d'ouvrage, et quand il s'en est une fois servi, il ne reprendra jamais la bêche à moins d'y être obligé.

Ces fourches ont obtenu trois Prix de la Société Royale d'Agriculture d'Angleterre.

PRIX :—

	fr.	c.
Fourches en acier à 3 fourchons	5	60
,, 4 ,,	6	85
,, 5 ,,	8	10
,, 6 ,,	9	35



* KASE's PATENT FORCE-PUMP.

This is much used for irrigating land with liquid manure, for watering gardens, and as a fire-engine.

To throw water to a great height, the pump must be worked by four men, but two men are suffieient to work it when used for distributing liquid manure, &c.

PRICES :—

	£	s.
Pump with 4-ineh barrels and all fittings complete ; capable of throwing 35 gallons per minute 70 feet high	9	8
Ditto, with 5-ineh barrels ; eapable of throwing 50 gallons per minute 80 feet high .	13	18
The same size pump, fitted with brass barrels and gun-metal plungers (mueh recommended for liquid manuring) . .	22	5
Ditto,with 6-inch brass barrels, &c.; eapable of throwing 60 gallons per minute 90 feet high	26	10

WM. DRAY and Co. supply, in eonneetion with these and other Pumps, all kinds of gutta pereha and flexible Tubing, for suetion and delivery.

NOTE.—Owing to want of s|aee, Wm. Dray & Co. have been unable to plaee the maehines marked thus * in the present Exhibition.

POMPE À HAUTE PRESSION PATENTÉE DE KASE.

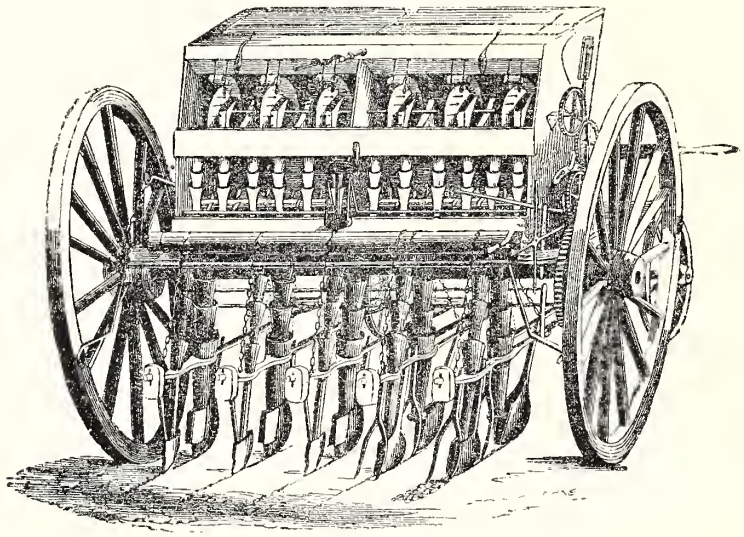
On s'en sert beaueoup pour faire sur le terrain des irrigations d'engrais liquide, arroser les jardins et eomme une pompe à ineendie. Pour lancer l'eau à une grande hauteur la pompe doit être mise en aetion par quatre hommes, mais deux suffisentlors qu'il s'agit de répandre de l'engrais liquide.

PRIX :—

	fr.	c.
Pompe avec eylindres de 4 pouees et tous les accessoires complets, pouvant jeter 35 gallons par minute à 70 pieds de hauteur .	235	0
Id. avec eylindres de 5 p., pouvant jeter 50 gallons par minute à 80 pieds . . .	347	50
La même avec des eylindres en euivre et des plongeurs de métal trempé, reeommandé spéialement pour l'engrais liquide . . .	556	25
La même avee des eylindres de euivre de 6 p., pouvant jeter 60 gallons par minute à 90 pieds	662	50

WM. DRAY et C^IE fournissent avee ees pompes et autres toutes sortes de tubes flexibles en gutta pereha ou autre matière, pour l'aspiration et la réjection.

NOTE.—Le manque d'espaee a empêché WM. DRAY et C^IE de mettre à la présente Exposition les Maehines marquées *.



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The above engraving represents GARRETT's GENERAL-PURPOSE DRILL. The Maehine ex-

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Le dessin ei-dessus représente le SEMOIR À TOUTES FINS DE GARRETT. La maehine

hibited is GARRETT's 9-ROW SUFFOLK CORN DRILL.

Price, 24*l.* 5*s.*

Patent Fore-carriage Steerage for Drill, 4*l.* 10*s.*

A very great number of Prizes have been awarded to Messrs. GARRETT and SON for their Drills. A complete Catalogue of these Machines may be obtained of the Patentees, or of WM. DRAY and Co., London.

GARRETT's PATENT HORSE-HOE,

Suitable for working after the above-named Drill.

Price, 16*l.* 10*s.*

HUCKVALE's PATENT REVOLVING HOE.

Price, 7*l.*

GARRETT's TWO-HORSE THRASHING MACHINE.

Price, 40*l.*

Jointed Spindle for same; price, 1*l.* 15*s.*

GARRETT's OIL-CAKE BREAKER,

For breaking-up Cake for Cattle-feeding.

Price, 11*l.*

GARRETT's COMBINED THRASHING, SHAKING, AND WINNOWING MACHINE.

Calculated for finishing Corn fit for markets.

Price, 104*l.*

CHAMBERS's PATENT MANURE DISTRIBUTOR.

Price, 21*l.*

This Machine obtained the Prize awarded by the Royal Agricultural Society of England in 1854.

exposée est le semoir à blé avec 9 déversoirs de Garrett de Suffolk.

Prix, 606 fr. 25 c.

Avant-train patenté pour diriger le semoir, 112 fr.

Messrs. Garrett et Fils ont obtenu plusieurs Prix pour leurs semoirs. On peut obtenir un Catalogue complet de ces machines, de ceux qui en possèdent les patentes et de W. DRAY et C^IE, à Londres.

HOUE TRAINÉE PAR UN CHEVAL, PATENTÉE PAR GARRETT, et très convenable pour être employée après le semoir précédent.

Prix, 412 fr. 50 c.

HOUE TOURNANTE PATENTÉE PAR HUCKVALE.

Prix, 175 fr.

MACHINE A BATTRE LE BLÉ, DE LA FORCE DE CINQ CHEVAUX, INVENTÉE PAR GARRETT.

Prix, 1,000 fr.

Verge rajustée pour la même, price 43 fr. 75 c.

MACHINE DE GARRETT POUR CASSER LES TOURTEAUX À L'HUILE,

Qui servent a nourrir le bétail.

Prix, 275 fr.

MACHINE COMPLEXE DE GARRETT, POUR BATTRE LE GRAIN, LE SECOUER, LE VANNER; et faite dans le but de préparer le grain pour le marché.

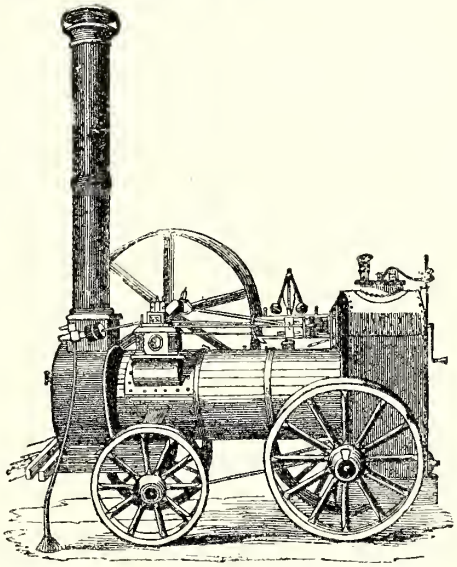
Prix, 2,600 fr.

DISTRIBUTEUR D'ENGRAIS,

Machine patenté par Chambers.

Prix, 525 fr.

Cette machine a obtenu le Prix accordé par la Soeiéte Royale d'Agrieulture d'Angleterre en 1854.



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HORNSBY's PATENT PORTABLE STEAM ENGINE.

The Royal Agricultural Society, and many others,

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MACHINE À VAPEUR PORTATIVE DE HORNSBY.

La Sociéte Royale d'Agriculture et beaucoup

have awarded Prizes to Messrs. Hornsby for their Portable Steam Engines.

Prices :—

4-horse power	Engine . . .	£180
5-horse	„ . . .	200
6-horse	„ . . .	220
7-horse	„ . . .	235
8-horse	„ . . .	255
10-horse	„ . . .	295

HORNSBY's PATENT COMBINED THRASHING, SHAKING, AND WINNOWING MACHINE.

Prices :—	£.	s.
Machine suitable for 6-horse power .	90	0
Machine suitable for from 7 to 10 horse power	92	10
Extra if fitted with apparatus for bagging the Corn	5	0
Extra if fitted with apparatus to horn or chop Barley	5	0

HORNSBY's PATENT 9-ROW GENERAL-PURPOSE DRILL,

Fitted with nine extra coulters and conductors to convey Corn, as well as Turnip and other Seeds, behind the manure coulters, so that the Seed is deposited directly after and above the manure.

Price, 48*l.*

Extras :—	£.	s.
Fore-carriage steerage	4	10
Stirrer, rotary motion to put in or out of action as the Drill travels . . .	1	10

d'autres Sociétés ont accordé des Prix à Messrs. Hornsby pour leurs machines à vapeur portatives.

Prix :—			fr.
Machine de la force de	4	chevaux . . .	4,500
„	5	„ . . .	5,000
„	6	„ . . .	5,500
„	7	„ . . .	5,875
„	8	„ . . .	6,375
„	10	„ . . .	7,375

MACHINES DE HORNSBY POUR BATTRE LE GRAIN, SECOUER LA PAILE ET VANNER.

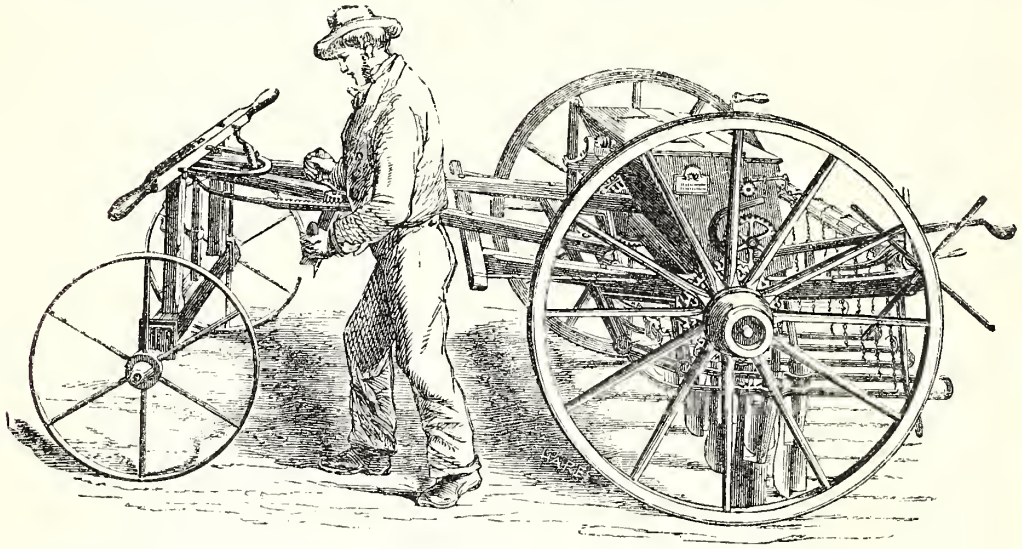
Prix :—	fr.	c.
Machine de la force de six chevaux	2,250	0
Une autre dont la force peut être variée de sept à dix chevaux .	2,312	50
Si l'on y ajoute un appareil pour mettre le blé en sac	125	0 ex.
Si l'on y ajuste un appareil pour broyer l'orge	125	0 ex.

SEMOIR À NEUF DEVERSOIRS ET À TOUTES FINS,

Patenté par Hornsby, garni de neuf coutres extra et conducteurs pour verser le grain, la graine de navet et d'autres graines, derrière les coutres pour l'engrais, de telle sorte que la graine est déposée immediatement après et au-dessus de l'engrais.

Prix, 1,200 fr.

Extras :—	fr.	c.
Avant-train pour diriger	112	50
Conducteur à motion rotatoire pour arrêter ou faire marcher pendant le travail du semoir	37	50



HORNSBY's PATENT 10-ROW CORN AND SEED DRILL, 5 feet 6 inches wide, with one Corn Barrel.

Price, 27*l.* 10s.

Extras :—	£.	s.
Fore-carriage steerage	4	10
Patent swing steerage	2	10
Additional barrel for depositing Turnip Seed	1	10
Additional pair of shafts	1	0

SEMOIR PATENTÉ DE HORNSBY,

A dix déversoirs, pour le blé et les autres graines ; il a 5 pieds 6 pouces de large, et un barril à blé.

Prix, 676 fr.

Extras :—	fr.	c.
Gouvernail avec avant-train	112	50
Gouvernail patenté sans avant-train .	62	50
Barril additionnel pour y déposer la graine de navet	37	50
Deux broncards additionnels	25	0

These Drills are made of many different sizes. A complete List may be obtained of the Patentees, or of Wm. Dray and Co., London, containing description of Drills of all kinds.

HORNSBY's PATENT CORN-DRESSING MACHINE.

Price, 13*l.* 10*s.*

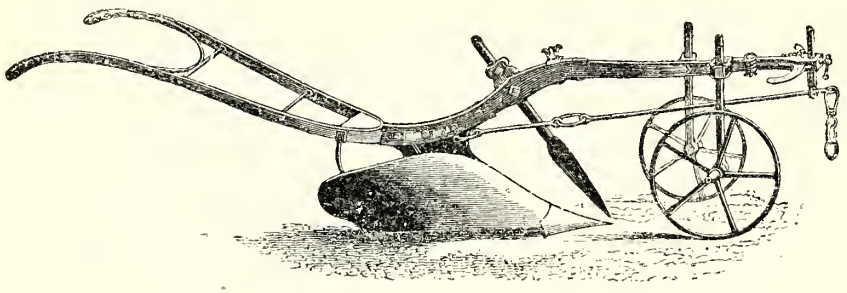
Many Prizes have been awarded for this Implement by various Societies, including the Royal Agricultural Socicty of England.

Ces Semoirs sont de différentes grandeurs. On peut en obtenir une liste complete de ceux qui les ont patentés, ou de W. Dray et Cie, à Londres ; on y trouvera les descriptions les plus complètes.

MACHINE PATENTÉE DE HORNSBY POUR DONNER AU GRAIN LE DERNIER APPRET.

Prix, 337 fr. 50 c.

Plusieurs Prix ont été accordés à cet appareil par diverses Sociétés, y compris la Société Royale d'Agriculture d'Angleterre.



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HOWARD's PRIZE PLOUGH, marked P.

Price, with two wheels and skim coulter, complete, 4*l.* 10*s.*

This Plough is made of iron (principally wrought), and is intended for ordinary ploughing. It is quite a new pattern, and in every respect a most complete two-horse Plough.

The improvements consist in greater eleganee of design and more equal proportions ; the furrow-turners being made peculiarly taper and regular in their curve, and formed upon exact geometrical principles, the furrow-slice is made to travel at an uniform rate from its being first cut until left in its final position, the power required to work the implement is considerably lessened, and the furrows are laid more evenly and in the best form for the reception of the seed, while the plough works much cleaner on land inclined to adhere to the breast or furrow-turner.

Ten First Prizes have been awarded to Howard's Plough by the Royal Agricultural Society of England, including that at Lincoln, 1854.

HOWARD's PRIZE PLOUGH, marked P P.

Price, with two whecls and skim coulter, complete, 4*l.* 15*s.*

This Plough is the same as the last, but of somewhat larger dimensions, and adapted for stronger land and deeper cultivation. It is highly recommended for general purposes.

HOWARD's NEW PATENT SUBSOIL PLOUGH, OR SUBSOIL PULVERIZER.

Price, 6*l.* 10*s.*

The Royal Agricultural Society of England have awarded a First Prize to this implement.

The Patent Subsoil Pulverizer is a most simple and effective implement for breaking up the hard close earth below the furrow, which has been rendered almost impervious to water by the trampling of the horses when at plough.

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CHARRUE DE HOWARD, marquée P.

(Premier Prix.)—Elle coûte avec les deux roues et un coutre à rogner complet, 112 fr. 50 c.

Cette Charrue est en fer (presque tout est forgé) et elle est destinée au labour ordinaire. Le modèle en est tout nouveau, et sous tous les rapports la Charrue à deux chevaux la plus complète.

Les perfectionnements consistent dans une forme beaucoup plus élégante et des proportions plus regulières ; les tourne-sillons sont surtout faits très minces et réguliers dans leur courbe, et en tout construits sur des principes géométriques rigoureux. La tranche du sillon suit un mouvement uniforme, parcequ'elle est coupée d'abord jusqu'à ce qu'elle soit laissée à sa dernière place, la force nécessaire pour faire marcher l'appareil est diminuée de beaucoup, et les sillons sont tracés plus également et de la façon la plus propice pour recevoir la semence ; d'un autre côté, la charrue travaille plus proprement sur des terrains d'une nature qui adhèrent au tourne-sillon.

Dix Premiers Prix ont été accordés à la Charrue de Howard, par la Société d'Angleterre, y compris celle de Lincoln en 1854.

CHARRUE DE HOWARD, marquée P P.

(Premier Prix.)—Elle coûte avec deux roues et un coutre à rogner, complet, 118 fr. 75 c.

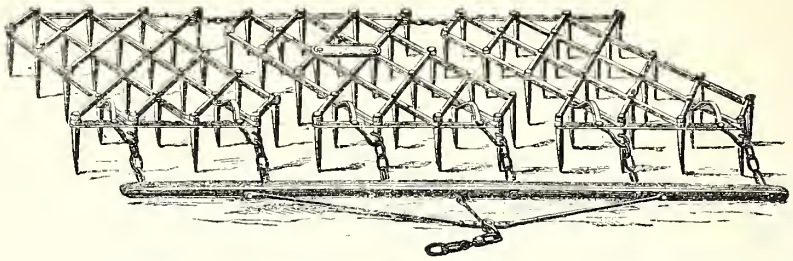
Elle est semblable à la préeédente, mais de plus grande dimension, ce qui la rend propre à la culture de terres plus fortes dans lesquelles elle pénètre plus avant. On la recommande beaucoup pour toutes sortes de travaux.

CHARRUE PATENTÉE POUR LE 2d LABOUR DE HOWARD, OU PULVERISEUR POUR LE 2d LABOUR.

Prix, 162 fr. 50 c.

La Société Royale d'Agriculture d'Angleterre a donné le Premier Prix à cet instrument.

Le Pulvériseur patenté est un appareil extrêmement simple et efficace pour briser la terre dure et compacte sous le sillon qui est devenue imperméable à l'eau par le piétinement des chevaux de charrue.



HOWARD's PRIZE IRON HARROWS, No. 10.

Price per set, complete, consisting of three Harrows and Whippletree, 5*l.* 5*s.*

These Harrows have received Six First Prizes from the Royal Agricultural Society of England.

Being made in a zigzag form, the teeth are so arranged that each cuts a separate track at equal distances. The draught being from a centre gives them a decided superiority over any other mode; for, upon the original plan of attaching the horses, if one advanced before the other, the harrows were drawn out of their proper tract, and the teeth thus made to follow each other, which caused a total loss of horse-power; but upon this principle, the irregular pace of the horses does not affect their working. Each harrow is attached to the whippletree by double hooks, which prevent them in rough work and turning from riding on each other, and also when working upon the side of a hill, from inclining towards the lower ground. They are furnished with hooks at the hinder part, in order to draw them the contrary way when harrowing in seeds, or crops in the spring; by this means the soil is not rooted up or penetrated so deeply as when drawn forward in the usual way.

Messrs. Howard have recently obtained Her Majesty's Royal Letters Patent for improvements in the manufacture of these Harrows. A most simple and inexpensive mode of securing the teeth is adopted, whereby the shaking loose through wear or neglect is effectually prevented. The holes or mortices of the upper beams are tapped or screwed, and a corresponding thread put upon the teeth, so that when fitted, the harrow is as firm as if all parts were welded together, and not more liable to shake loose.

HOWARD's PRIZE SCREWED BEAM-JOINTED IRON HARROWS, No. 11.

Price, per set, complete, consisting of three Harrows and Whippletree, 4*l.* 11*s.* 6*d.*

The above possess all the advantages of the Harrows already described, and are the same in principle, but furnished with joints in the centre of each harrow, which allow them to adapt themselves to the form of the ridges or any unevenness of the surface; by a simple arrangement, these joints may be instantly locked or allowed as much play as required.

It is found desirable in very rough work to fasten the joints.

HOWARD's PRIZE STEEL-TOOTH HORSE RAKE.

Price, 8*l.* 10*s.*

This implement gained the two First Prizes last offered by the Royal Agricultural Society of England.

The Horse Rake is intended for raking hay, corn, stubble, or twitch-grass. The substitution of Steel

HERSE EN FER DE HOWARD. (PRIX.)

Un assortiment complet de trois Herses et un Palonnier, 131 fr.

Ces Herses ont valu à l'inventeur six Premiers Prix de la Société Royale d'Agrieulture d'Angleterre.

Elles sont faites en zigzag, les dents sont disposées de telle sorte que chacune coupe un petit sillon à distances égales. Le tirage part du centre et leur donne une supériorité marquée sur toutes les autres; car, d'après l'ancien mode d'atteler les chevaux, quand l'un avançait devant l'autre, les herses sortaient de leurs sillons et les dents se suivaient l'une après l'autre, ce qui causait une perte totale de la force des chevaux; avec le principe actuel, le pas irrégulier des chevaux n'a point d'influence sur leur travail. Chaque herse est attachée au palonnier par de doubles crochets, ce qui les empêche quand l'ouvrage est dur de s'embarrasser les unes dans les autres, et encore lorsqu'on herse sur la pente d'une colline elles ne peuvent s'incliner vers le terrain le plus bas. Elles ont des crochets à l'arrière, pour aider à les faire aller en sens contraire quand on herse sur des semences ou des moissons au printemps; par ce moyen, le sol n'est pas retourné ou pénétré aussi profondément que par l'ancienne méthode.

Messrs. Howard ont obtenu récemment des Lettres Royales Patentes de Sa Majesté pour le perfectionnement de ces herses; ils ont adopté un moyen aussi simple que peu coûteux pour fixer les dents, et empêcher l'ébranlement causé par l'usage ou la négligence. Les trous ou mortaises des flèches supérieures sont vissés, et un fil qui y correspond est mis aux dents, de telle sorte que lorsque la herse est arrangée elle est aussi solide que si toutes ses parties avaient été soudées, et ainsi elle ne peut se détacher par l'ébranlement.

HERSES EN FER AVEC DES CHARNIÈRES VISSÉES, INVENTÉES PAR HOWARD, N° 11. (PRIX.)

L'assortiment complet se compose de trois Herses et d'un Palonnier, prix, 114 fr. 35 c.

Ces Herses possèdent tous les avantages des précédentes, et sont faites sur le même principe, mais ont des charnières au centre de chaque herse, ce qui leur permet de s'adapter à toutes les inégalités du terrain; par un arrangement fort simple ces charnières peuvent être arrêtées à l'instant ou leur action modifiée à volonté.

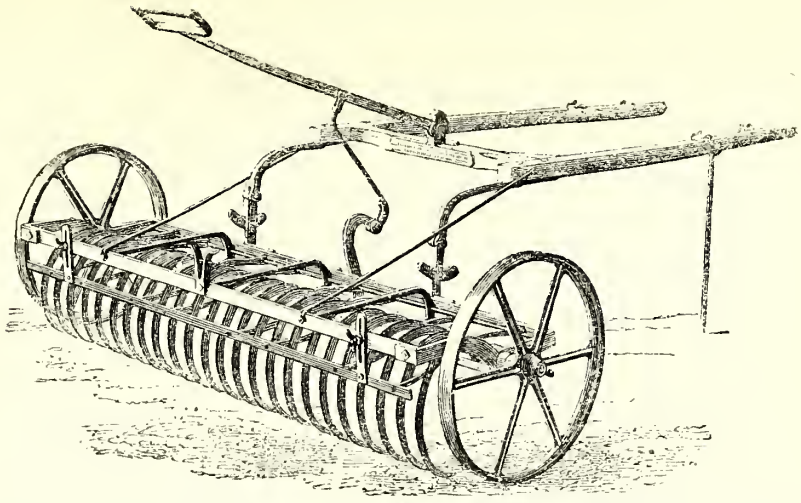
Quand le travail est dur il vaut mieux attacher les charnières.

RATEAU À DENTS D'ACIER TRAINÉ PAR DES CHEVAUX ET INVENTÉ PAR HOWARD. (PRIX.)

Il coûte 212 fr. 50 c.

Ce rateau a obtenu les deux derniers Premiers Prix de la Société d'Agrieulture d'Angleterre.

Ce rateau sert à râtisser le foin, le blé, les éteules, ou le chiendent. La substitution de dents d'acier aux



Teeth for iron ones will be found a great improvement; they are much lighter as well as stronger, not liable to pull straight or get out of shape, will wear much longer, and, on account of their lightness, the power required to raise them is considerably lessened. The shaft-irons are furnished with a joint and quadrant, by which the teeth may readily be altered, so as to rake upon their points, or set more or less off the ground. The bar running under the teeth, and by which they are raised, is so arranged that the teeth are allowed to drop into any hollow parts of the land. The frame is made entirely of wrought iron. The teeth work independently of each other, and thus adapt themselves to the irregularity of the surface.

HOWARD's IMPROVED TRUSSED WHIPPLETREES.

Price, 11*s.* 6*d.* per set.

These Whippletrees are made upon Mr. Harding's principle. They are highly recommended for their great strength, lightness, and durability.

HOWARD's IMPROVED EQUALIZING WHIPPLETREES.

Price, 26*s.* per set.

Similar in principle to the last, but with an equalizing motion for working three horses abreast in harrows, scarifiers, &c., &c.

HOWARD's IMPROVED STEELYARD WHIPPLETREES.

Price, 26*s.* per set.

Intended for working three horses abreast at plough —one horse in the furrow and two upon the unploughed ground.

HOWARD's PRIZE ONE-ROWED HORSE HOE.

Price, with two Wheels and expanding Harrow, complete, 3*l.* 5*s.*

The Royal Agricultural Society of England have awarded two First Prizes to this implement.

It is made entirely of wrought iron, and intended for one row of beans, peas, turnips, &c.; has three shares, which are made to slide upon the frame, so as to take the various widths required.

dents de fer est un grand perfectionnement; elles sont plus légères et plus fortes, ne tirent point droit et ne se déforment pas, durent plus longtemps à cause de leur légèreté, et la force requise pour les mettre en action est diminuée de beaucoup. Les barres de fer sont garnies d'une charnière et d'un quart de cercle, ce qui permet de modifier les dents de manière à râtisser sur leurs pointes ou à appuyer plus ou moins sur le terrain. La barre de traverse sous les dents et qui sert à les faire lever est faite de façon à faire tomber les dents sur le terrain dans quelques endroits creux que ce soit. La charpente est en fer forgé. Les dents se meuvent indépendemment les unes des autres et s'adaptent ainsi à toutes les irrégularités de la surface.

PALONNIERS LIÉS PERFECTIONNÉS PAR HOWARD.

Prix, 14 fr. 35 c. l'assortiment.

Ces Palonniers sont faits sur le même principe que ceux de M. Harding. On les recommande à cause de leur force, de leur légèreté et de leur durée.

PALONNIERS PERFECTIONNÉS À MOUVEMENT REGULATEUR.

Prix, 32 fr. 80 c. l'assortiment.

Ils sont semblables aux autres, mais ce mouvement permet d'avoir trois chevaux de front aux herses, &c.

PALONNIERS PERFECTIONNÉS EN FORME DE PESON PAR HOWARD.

Prix, 32 fr. 80 c. l'assortiment.

Ils sont employés avec trois chevaux de front à une charrue, un cheval dans le sillon et les deux autres sur le terrain non labouré.

HOUE À UN RANG À UN CHEVAL. (PRIX.)

Elle coûte avec deux roues et une herse qui s'allonge, 81 fr. 25 c.

La Société Royale d'Agriculture a accordé deux Premiers Prix à cet instrument.

Il est fabriqué en fer forgé, et destiné à un rang de fèves, pois, navets, &c.; a trois coutres qui glissent sur la charpente de manière à permettre de prendre les diverses largeurs requises.

145 NICHOLL's PATENT HORSE HOE.

The peculiar advantage afforded by this implement is, that by means of its steerage, it can be made to follow the drills, be they ever so crooked or irregular.

PRICES :—

4-row Horse Hoe	£13
5-row ,, ...	14
6-row ,, ...	15

145 HOUE PATENTÉE, TRAINÉE PAR DES CHEVAUX, INVENTÉE PAR NICHOLL.

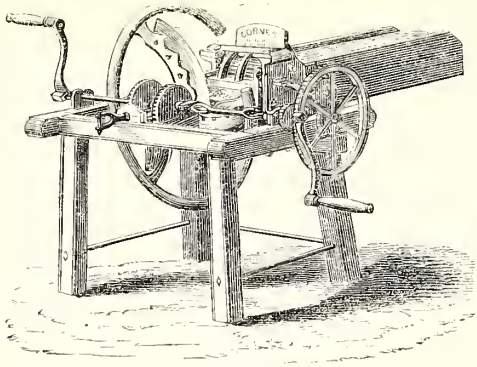
L'avantage particulier de cet instrument c'est qu'on peut le diriger de manière à ce qu'il puisse suivre les sillons, quelque irréguliers qu'ils soient.

Prix :—

Houe à 4 rangs	fr. 325
,, 5 ,, ...	350
,, 6 ,, ...	375

PRICES :—

	£.	s.
No. 1 . . .	9	0
2 . . .	11	0
3 . . .	8	10
4 . . .	6	15
5 . . .	14	0
6 . . .	12	10
9 . . .	4	15
10 . . .	4	10
11 . . .	3	0



PRIX :—

	fr.	c.
N° 1 . . .	225	0
2 . . .	275	0
3 . . .	212	0
4 . . .	168	0
5 . . .	350	0
6 . . .	312	50
9 . . .	118	75
10 . . .	112	50
11 . . .	75	0

146

CORNE's CHAFF-CUTTING MACHINE.

A great many Prizes have been awarded for this implement by the Royal Agricultural Society of England and others.

146

MACHINE DE CORNE À COUPER LA PAILLE.

Plusieurs Prix ont été accordés à cet appareil par la Société Royale d'Agriculture et d'autres.

147

RANSOME'S PATENT TRUSSED BEAM TWO-HORSE IRON PLOUGH, marked Y. L.

Awarded the Prize of 10*l.* and Silver Medal, as the best heavy-land Plough; a Prize of 10*l.* and Silver Medal as the best light-land Plough, at the Royal Agricultural Society's meeting at Southampton; also a Prize of 10*l.* at the Royal Agricultural Society's meeting at Northampton; and the Council Medal of the Great Exhibition with this Plough, as made by Busby under licence.

For general purposes this Plough obtains the preference over most, if not all, others; and, by changing the mould-board only—as was the case at the great trial at Southampton in 1844—it will answer equally well for heavy as for light land; and, upon the occasion referred to, it obtained the double Prize of the Royal Agricultural Society, "as the best Plough both for heavy and light land." The construction of this Plough is very simple, and its draught light.

The coulter fittings are on a simple plan, affording facilities for quickly placing the coulter in any required position.

There are upwards of twenty varieties of mould-boards to this Plough, adapted for every description of soil; and it is desirable, in giving orders for this and similar Ploughs, to state whether required for heavy or light land, and if fitted with one or two wheels, or as a Swing Plough.

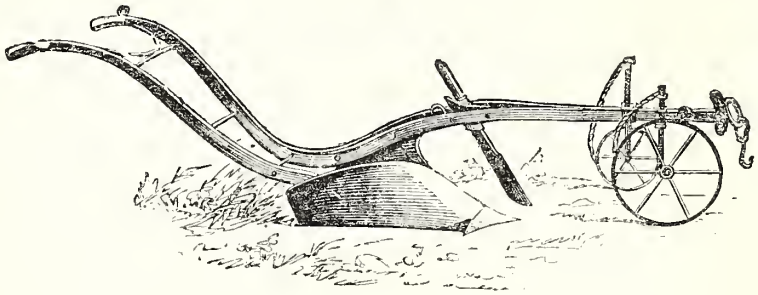
147

CHARRUE EN FER À FLÈCHE ATTACHEE ET A DEUX CHEVAUX. Marquée Y L.

A obtenu le Prix de 250 fr. et la Médaille d'Argent, comme étant la meilleure charrue pour labourer les terres fortes; et le Prix de 250fr. et la Médaille d'Argent, de la Société Royale Agricole, dans sa réunion à Southampton; de plus, un Prix de 250 fr. à la réunion de ladite Société à Northampton; la Médaille du conseil de la Grande Exposition a été donnée à cette charrue telle qu'elle est faite par Busby, qui a une licence.

Pour les besoins généraux cette charrue l'emporte sur presque toutes les autres, et en changeant seulement le tourne-sillon—ce qu'on a fait lors de la grande expérience faite à Southampton en 1844—elle est aussi utile pour les terres fortes que pour les terrains légers; elle a obtenu à cette époque le double Prix de la Société Royale, comme étant—*La meilleure Charrue pour les terres fortes ou les terres légères.* Sa construction est très simple et elle a peu de tirage. Les accessoires du coutre sont sur un plan simple, et permettent de le placer très vite dans la position requise.

Il y a plus de vingt sortes de tourne-sillons pour cette charrue, qui s'adaptent à toutes les espèces de sol; et il est nécessaire, lorsqu'on commande cette charrue ou toute autre analogue, de spécifier si c'est pour un terrain fort ou léger, s'il doit y avoir une ou deux roues ou si ce doit être une charrue sans avant-train.



PRICES :—

	£.	s.
As a Swing Plough	3	14
Do. with One Wheel	4	0
Do. with Two Wheels	4	10
Fitted with Skim Coulter, extra	0	4
Do. with Steel Breast, extra . .	0	12

PRIX :—

	fr.	c.
Charrue sans avant-train . . .	92	50
A une roue	100	0
A deux roues	112	50
Avec un coutre à rogner attaché	5	0 ex.
Avec un tourne-sillon attaché .	15	0 ex.

RANSOME'S PATENT TRUSSED BEAM TWO-HORSE IRON PLOUGH, marked Y. R. C.

Awarded the Prize at the meeting of the Royal Agricultural Society at Lewes, 1852, and again at a meeting of the same Society at Lincoln, 1854, as the best Plough for general purposes.

In its general formation this Plough is similar to the well known Y. L. Plough previously described, but without the contrivance for altering the pitch of share. The mould-board has been constructed with every attention to correctness of form and adaptation to variations of soil; and its superiority was fully proved at the meeting of the Royal Agricultural Society at Lewes, in 1852, and at Lincoln, 1854, where this Plough successfully competed for the Prize offered for "the best Plough for general purposes."

PRICES :—	£.	s.
As a Swing Plough	3	14
Fitted with One Wheel . . .	4	0
Do. with Two Wheels . . .	4	10
Do. with Skim Coulter, extra	0	5
Do. with Steel Breast, extra .	0	12

RANSOME'S PATENT TRUSSED BEAM IRON UNIVERSAL RIDGE PLOUGH, marked Y. U. L.

Silver Medal of the Royal Agricultural Society at Norwich, 1849.

This Plough was constructed under the direction of John Clarke, Long Sutton Marsh, for which he was awarded the Silver Medal of the Royal Agricultural Society of England, and the Prize at the R. A. S. meeting at Norwich, in 1849.

It is adapted to the several purposes of ridge culture, and, by an easy transition of shape, which is accomplished in a simple manner, it becomes—

CHARRUE EN FER À FLÈCHE ATTACHÉE et à DEUX CHEVAUX. (Patentée.) Marquée Y.R.C.

A obtenu le Prix à la réunion de la Société Royale Agricole à Lewes en 1852; et aussi à une autre réunion à Lincoln en 1854, comme étant la meilleure charrue propre à tous les besoins de l'agriculture.

Cette charrue ressemble par sa construction à celle qu'on connait sous la marque Y L, déjà décrite, mais sans l'invention qui permet de modifier la portée du soc. Le tourne-sillon a été construit en vue de s'adapter à toutes les variations du sol, et sa supériorité a été ouvertement reconnue lors de la réunion de la Société Royale d'Agriculture à Lewes en 1852, et à Lincoln en 1854, où cette charrue a concouru avec succès pour obtenir le Prix destiné à *la meilleure charrue pour tous les besoins de l'agriculture.*

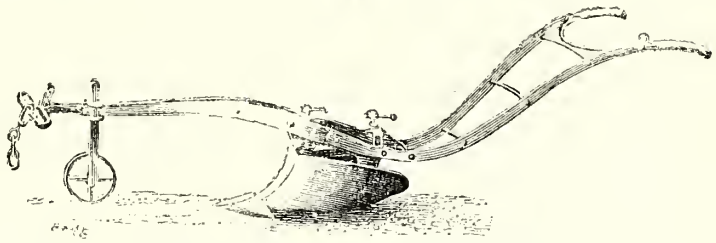
PRIX :—	fr.	c.
Comme charrue sans avant-train	92	50
A une roue	100	0
A deux roues	112	50
Avec coutre à rogner	6	25 ex.
Avec tourne-sillon attaché . .	15	0 ex.

CHARRUE À FLÈCHE ATTACHÉE INVENTÉE PAR RANSOME. Marquée Y. U. I.

Médaille d'Argent de la Société Royale Agricole à Norwich 1849.

Cette charrue a été construite sous la direction de John Clarke, Long Sutton Marsh, ce qui lui valut la Médaille d'Argent de la Société Royale, et le Prix de cette Société dans sa séance tenue à Norwich en 1849.

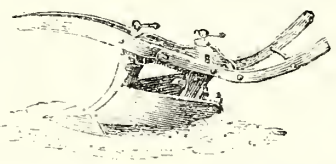
Elle est propre aux diverses manières de labourer les billons, et par une changement de forme facile à opérer elle devient—



First. A DOUBLE TOM, or RIDGE PLOUGH, as annexed. It is used with one of the smaller shares, 12 or 15 inches wide, and in this character will open and close the land in ridge work, at any distances, where the manure is deposited; it also serves the purpose of setting out lands for common ploughing, or opening surface drains.

1°. UNE CHARRUE À BILLONS, telle qu'on la voit sur le dessin. On s'en sert avec un des plus petits socs de 12 ou 15 pouces de large, et sous cette forme ouvre et ferme le terrain quand on travaille sur les ondulations de terrain, à quelque distance que ce soit où l'engrais est déposé; on s'en sert aussi pour préparer les terres à un labourage ordinaire ou pour ouvrir des tranchées d'écoulement.

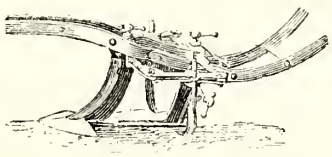
Second. A MOULDING PLOUGH, to be used in moulding up root-crops, peas, or beans. The cut shows the form of mould-boards, &c. &c.



2°. UNE CHARRUE À BILLONS, servant à faire de petits ados contre les racines de pois, de fèves, &c. La vignette montre la forme des socs et tourne-sillons, &c.

Third. A HORSE HOE, or CLEANING PLOUGH.

The cut represents the implement without the mould-boards, the heel-piece or back part of the frame being removed, and having two frames made to shift to any width, with a share in front and two curved cutters: thus used, it is a perfect Horse Hoe, the share cleaning the bottom

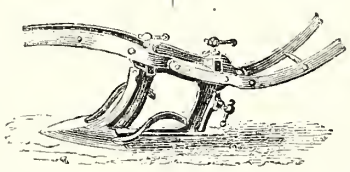


3°. UNE HOUE À UN CHEVAL, ou CHARRUE pour nétoyer. Le dessin représente l'instrument sans les tourne-sillons, la partie inférieure de la charpente étant enlevée, et l'instrument ayant deux charpentes de rechange pour s'accommoder à toutes les largeurs, avec un soc sur le devant et deux lames courbes; de cette façon c'est comme une houe

of the furrow, while the hoe shaves the sides of the ridges.

It needed to be used as a Scarifier for bean rows, potatoes, &c., substitute the flat hoes for the curved cutters. As the Hoe-frame will expand about 3 ft. 6 in., it will allow two flat hoes to be used on each side, and thus form a superior Nidget for hop yards, as also for loose fallows.

Fourth. A Skeleton, or Broad-Share Plough



As a Broad-share Plough, use one of the large sized shares, 14 in. or 18 in., and the small mould-boards; or, if preferred without the mould-boards, use the prongs. In the former case it will effect good trench ploughing; and in the latter it will break up the soil, and leave it in the best state for pulverization. If it be desired merely to cut up weeds, use the large broadshare only without prongs. As a Skeleton Plough, use the large single-winged share, either with or without prongs.

By broad-sharing or skeleton-ploughing in the autumn, not only is the soil brought into a pulverized state, but the seeds of annuals, roots, weeds, &c., are stimulated to vegetate, and grubs, worms, and the larvæ of insects are destroyed; and it is supposed that, by promoting the attraction and deposit of vegetable effluvia, extensively given off by decayed vegetation at this season, the productive powers of the soil are much increased.

In all these stages it may readily be worked with one horse, and the adjustment of its various parts are so simple as to render further directions unnecessary.

Price of the Plough, complete, with fittings to perform all the above-named operations, 6*l.* 6*s.*

GARDNER'S DOUBLE ACTION TURNIP CUTTER.

This well-known and indispensable machine is used for cutting turnips into slices suitable for sheep. The pieces average $\frac{3}{4}$ in. wide by $\frac{1}{2}$ in. thick, while the waste by small irregular pieces is very trifling. By turning the fly-wheel in a contrary way it cuts the turnips into pieces $2\frac{1}{4}$ in. wide by $\frac{5}{8}$ in. thick for cattle. When required, they are sent out fitted with wheels and handles, for convenience of removing from place to place.

Prices :—	£.	s.
As a Single-action Machine for sheep only . .	4	10
As a Double-action Machine for beast and sheep,	5	10
Fitted with Wheels and Axle, to render it portable, extra	0	13

BIDDELL'S PATENT BEAN CUTTER, FOR HARD AND SOFT BEANS.

Awarded the Silver Medal of the Royal Agricultural Society at Gloucester, and several Prizes by others.

By this Mill the largest and smallest varieties of beans are equally well prepared, and this quite independently of the dryness of the grain, for, whether hard or soft, the efficiency of the operation is the same, while no choking can take place. The power required to prepare a given quantity of grain is less than with the ordinary Bean Mill. The great novelty of this Mill consists in the teeth or cutters being made of

parfaite traînée par des chevaux, le soc nétoyant le fond du sillon, tandisque la houe en égalise les côtés.

Si l'on devait s'en servir pour scarifier des fèves, des pommes de terres, &c., il faudrait substituer des coutres courbes aux houes plates. Comme la charpente de la houe, s'étend d'environ 3 pieds 6 pouces, elle permet d'employer deux houes plates de chaque côté, et forme ainsi un excellent instrument pour les houblonnières et pour des jachères.

4°. Une Charrue-squelette ou Charrue à large Soc.

Pour une charrue de cette espèce il faut employer un des grands socs, de 14 à 18 pouces, et les petits tourne-sillons; ou si l'on désire s'en passer, il faut employer les fourchons. Dans le premier cas, elle effectuera une bonne tranchée, et dans l'autre elle brisera le sol et le laissera dans le meilleur état pour être pulvérisé. Si l'on veut seulement couper de mauvaises herbes il faut se servir du large soc, mais sans fourchons. Comme une charrue-squelette, employez le grand soc à une aile avec ou sans dents.

Par ce soc si large employé dans le labour de l'automne, non seulement le sol est mis en état de pulvérisation, mais les semences, les racines, les mauvaises herbes, &c., sont hâtées dans leur croissance, et les vers et les larves d'insectes sont détruits; il est à supposer qu'en excitant l'attraction et le dépôt des effluves végétales, qui se répandant en abondance par la végétation avancée qui se détériore à cette époque, la faculté reproductive du sol s'accroit de beaucoup.

Dans ces diverses conditions la charrue peut marcher avec un cheval, et l'ajustement de toutes ses parties est si simple que toute autre explication est inutile.

Prix de la Charrue avec tous les accessoires pour opérer de semblables modifications, 157 fr. 50 c.

MACHINE À DOUBLE ACTION POUR COUPER LES NAVETS.

Cet ustensile si connu et si indispensable sert à couper les navets en tranches qui conviennent aux moutons. Les morceaux ont en général $\frac{3}{4}$ de pouce de largeur sur $\frac{1}{2}$ p. d'épaisseur, et la perte occasionnée par les petits morceaux est très minime. En tournant la roue volante en sens contraire on coupe les navets en morceaux de 2 p. $\frac{1}{4}$ de largeur sur $\frac{5}{8}$ d'épaisseur pour les bestiaux. Quand on le désire, cette machine est envoyée garnie de roues et de poignées pour la transporter aisément d'un endroit à l'autre.

Prix :—	fr.	c.
Comme machine à mouvement simple pour les moutons	112	50
A double mouvement pour les bestiaux et les moutons	137	50
Garnie de roues et essieu pour la rendre portative	16	25 ex.

MACHINE À COUPER LES FEVES DURES ET TENDRES, INVENTÉE ET PATENTÉE PAR BIDDELL.

Elle a obtenu la Médaille d'Argent de la Société Royale Agricole à Gloucester, et plusieurs Prix d'autres Sociétés.

Par le moyen de cette machine toutes les variétés de fèves sont preparées également bien, quelle que soit la sécheresse du grain, car dur ou tendre on le prépare avec facilité, et il n'y a point d'engorgement. La force nécessaire pour préparer une quantité donnée de grain est moindre que celle qu'exige le moulin ordi-

separate pieces of hardened steel, fixed in a cylinder; each tooth has three prepared cutting edges, so that when one edge, or set of edges, becomes dull, they may be taken out, turned one-third round, put in again, and a new edge, or set of edges, is obtained; and when these fail, they may be again taken out and turned one-third round, and it makes a second fresh set; and when this third resource fails, they may be taken out and easily replaced with new teeth, by an ordinary labourer, at a very small cost, viz., 6s.

One man can crush . .	3 bushels of beans	per hour.
Two men ditto . .	5 ditto	ditto
If driven by horse or steam power, at a speed of 150 revolutions per minute, will grind .	24 ditto	ditto

	£.	s.	d.
Price	3	15	0
Do., fitted with Crotch for Horse-power .	4	5	6
Do., fitted with fast and loose Pulleys for Steam-power	4	16	0

RANSOME's IMPROVED HORIZONTAL DIRECT-ACTION FIXED STEAM ENGINE.

Royal Agricultural Society's meeting at Lewes, 1852—Prize. Royal Agricultural Society's meeting at Gloucester, 1853—Commended. Royal Agricultural Society's meeting at Lincoln, 1854—First Prize.

R. and S.'s Engine exhibited is of Four-Horse Power, and in its general arrangement is similar to the Prize Engine.

These Engines are made of the best materials and first-class workmanship. They are exceedingly simple in construction and compact in form. All the parts are easy of access, and afford every facility for adjustment or repairs. They are principally supported on a cast-iron frame, made very strong, and do not require any attachment to the walls of the building in which the Engine is placed. They can be either erected on a stone or brick foundation, or be carried on two wood sills.

The following prices of Engines of similar construction to the above include the Engine, Boiler and all the necessary fittings for the Boiler, but not the connections between it and the Engine, the cost of which varies according to the distances they are placed asunder.

12-horse fixed Steam Engine	£270
10-horse ,, ,, ...	220
,, ,, ,, fitted with expansion gear	250
8-horse ,, ,, ...	195
7-horse ,, ,, ...	190
6-horse ,, ,, ...	180
5-horse ,, ,, ...	170
4-horse ,, ,, ...	150

RANSOME's SEVEN-HORSE POWER PORTABLE STEAM ENGINE.

Consuming $5\frac{1}{10}$ lbs. of coals per horse-power per hour.

Royal Agricultural Society's meeting at Lewes, 1852—Commended. Royal Agricultural Society's meeting at Gloucester, 1853—Commended. Royal Agricultural Society's meeting at Lincoln, 1854—Prize.

In the manufacture and construction of these Engines the best materials and workmanship are combined.

naire à fèves. La grande nouveauté de ce moulin consiste dans les dents, qui sont faites de pièces séparées d'acier durci, fixées à un cylindre; chaque dent a trois tranchants préparés de telle sorte que lorsqu'un tranchant, ou assortiment de tranchants, s'émousse, on peut l'enlever, le réduire à un tranchant d'un tiers, le remettre, et l'on obtient ainsi de nouvelles lames; et quand celles-ci s'émoussent aussi, on peut encore les enlever et les reduire d'un tiers, et avoir ainsi un nouvel assortiment; et quand ce dernier ne va plus, on peut l'enlever et en substituer un tout nouveau; ceci coûte peu et un simple ouvrier peut le faire.

Un homme peut broyer .	3 boisseaux de fèves	par heure.
Deux hommes ,, .	5 ,,	
Si la machine était mue par des chevaux ou par la vapeur à raison de 150 révolutions par minute, elle broyerait .	24 ,,	

	fr.	c.
Prix	93	75
Avec l'accessoire nécessaire pour employer des chevaux	106	75
Avec une poulie pour employer la vapeur	120	0

MACHINE À VAPEUR FIXE À MOUVEMENT DIRECT HORIZONTAL, PERFECTIONNÉE PAR RANSOME.

Prix—De la Société Royale Agricole dans sa réunion à Lewes en 1852. Mention Honorable—De cette Société dans sa réunion à Gloucester en 1853. Premier Prix—De cette Société dans sa réunion à Lincoln en 1854.

La machine exposée de R. et S. est de la force de quatre chevaux, et dans sa construction est en général semblable à la machine qui a eu le Prix.

Ces machines sont fabriquées avec les meilleurs matériaux et le fini du travail ne laisse rien à desirer. Leur construction est simple et le tout est compacte. On peut approcher de toutes les parties et les ajuster ou les raccommoder en cas de besoin. Elles sont principalement montées sur fer forgé rendu très fort, et il n'est point nécessaire de les fixer aux murs du bâtiment où on les place. On peut également les monter sur une fondation en pierres ou en briques, ou les faire supporter par deux poutres.

Les prix suivants de machines de semblable construction comprennent la machine, la chaudière et ses accessoires, mais non pas ce qui est placé entre elle et la machine; le prix varie en raison de la distance qui les sépare.

Machine fixe de la force de 12 chevaux	fr. 6,750
,, ,, 10 ,, .	5,500
,, ,, 10 ,, avec un appareil qui se déploie	6,250
,, ,, 8 ,, .	4,875
,, ,, 7 ,, .	4,750
,, ,, 6 ,, .	4,500
,, ,, 5 ,, .	4,250
,, ,, 4 ,, .	3,750

MACHINE À VAPEUR PORTATIVE DE LA FORCE DE SEPT CHEVAUX, PAR RANSOME.

Elle consomme par heure 5 livres $\frac{1}{10}$ de charbon pour la force de chaque cheval.

Réunion de la Société Royal d'Agriculture à Lewes en 1852—Mention Honorable.

Id. à Gloucester en 1853—Mention Honorable.

Id. à Lincoln en 1854—Prix.

Dans la fabrication de ces machines on a combiné la qualité des matériaux avec le fini du travail.

PRICES:—

5-horse power	£190
7-horse power	215
10-horse power	275

DAVY's PATENT MACHINERY FOR THE PREPARATION OF UNSTEEPED FLAX.

This patent Machine is for breaking the seed-bolls and woody part of the flax-plant, and for separating both seed and fibre from the straw as soon as harvested, without steeping or "retting" it, as on the ordinary method. Consequently the strength of the fibre is unimpaired, the oleaginous properties of the plant are retained, the great risk and expense of steeping or retting is avoided, and a larger amount of fibre is obtained from the plant.

DAVY's SCUTCHING MACHINE.

This Machine is on an improved principle of construction for removing the loose and broken woody particles which will be found adhering to the fibre, as separated and produced by Davy's patent Machine, being all that is required to render it marketable and available for manufacturing purposes.

PRIX:—

De la force de 5 chevaux . . .	fr. 4,750
„ 7 „ . . .	5,375
„ 10 „ . . .	6,875

APPAREIL PATENTÉ POUR LA PRÉPARATION DU LIN NON-TREMPÉ, INVENTÉ PAR DAVY.

Cette machine sert à briser les graines et la partie ligneuse de la plante, et à séparer la graine de la fibre de la paille aussitôt qu'on a récolté le lin, sans le mouiller ou le rouir selon la méthode ordinaire. La force de la fibre reste intacte, la plante garde ses propriétés oléagineuses et le risque et la dépense de tremper ou de rouir est évité, et on obtient de la plante une plus grande quantité de fibres.

MACHINE DE DAVY, POUR ENLEVER DU LIN LES PARTICULES LIGNEUSES.

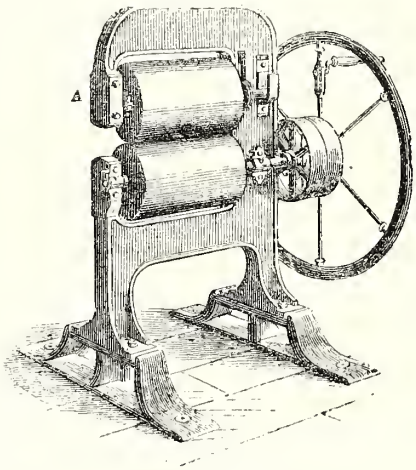
Elle est d'une construction perfectionnée et sert à enlever les particules ligneuses détachées et brisées qui adhèrent à la fibre, et le lin devient après l'opération propre à être mis en vente et à subir les transformations de la fabrication.

148

REID's DRESSING FAN.

148

MACHINE SOUFFLANTE POUR DONNER LE DERNIER APPRET, INVENTÉ PAR REID.



149

ROBINSON's FLAX SEEDING MACHINE.

This Machine removes the seed from the straw by pressure between two rollers. It performs the work in the most easy and efficient manner without injury either to the grain or the flax.

Price, 16*l.* 10*s.*

149

MACHINE DE ROBINSON POUR ENLEVER LA GRAINE DU LIN

Elle enlève la graine de la paille par pression entre deux rouleaux, et fonctionne de la façon la plus aisée et la plus efficace sans nuire à la graine ni au lin.

Prix, 112 fr. 50 c.

150

SHANK's LAWN-MOWING MACHINE.

It is 30 inches wide, and is fitted to be drawn by one horse. It performs the operations of mowing and rolling lawn and pleasure grounds to perfection.

Price, 16*l.* 10*s.*

WM. DRAY and Co. manufacture LAWN-MOWING MACHINES of similar construction, to be worked by one man.

The Improved Lawn-Mowing Machine manufactured

150

MACHINE À FAUCHER LES PELOUSES, INVENTÉE PAR SHANKS.

Elle a 30 pouces de large, et elle est arrangée pour être tirée par un cheval. Elle fauche et roule les pelouses et les jardins d'agrément dans une grande perfection. Prix, 112 fr. 50 c.

W. DRAY et C^IE fabriquent des MACHINES à FAUCHER des PELOUSES d'une construction semblable et qu'un homme peut faire marcher.

La Machine perfectionnée pour Faucher les Pelouses,

by Wm. Dray and Co. is most easy of management. It removes all the cut grass; and leaves no seam on the lawn.

Wm. Dray and Co.'s Lawn-Mower is provided with wheels, attached directly over the cutters; by the adjustment of which the length of cut of the grass is regulated. As these wheels, in combination with the large iron roller, give a broad base to the machine, it need only be pushed along before the operator, requiring no care whatever in handling. This substitution for the small wood Roller formerly used greatly reduces friction. A modification is also introduced into the spiral apparatus, which effectually does away with the tendency the cutters had to choke. The wood Roller is now used only in mowing narrow borders; and at that time the wheels are raised clear of the ground.

Prices :—	£.	s.
Machine 16 inches wide . . .	6	5
,, 19 ,, . . .	6	10
,, 22 ,, . . .	6	15
,, 25 ,, fitted to be drawn by a pony	10	10

et fabriquée par Dray et C^IE, est très aisée à manœuvrer. Elle emporte toute l'herbe fauchée et ne laisse pas de traces sur la pelouse.

Le Faucheur de pelouse de W. Dray et C^IE est garni de roues attachées directement au-dessus des lames, et qui par leur ajustement permettent de régler la longueur de la coupe du gazon. Comme ces roues, combinées avec le gros rouleau en fer, donnent une large base à la machine, il suffit de la pousser devant celui qui y veille et qui n'a pas besoin d'y toucher. Cette substitution au petit rouleau de bois anciennement en usage réduit de beaucoup la friction. On a aussi introduit une modification dans l'appareil en spirale, qui détruit la tendance qu'avaient les lames à s'engorger. On ne se sert maintenant du rouleau de bois qu'en fauchant des bordures étroites, et dans cette opération les roues sont complètement élevées au-dessus du terrain.

Prix :—	fr.	c.
Machine de 16 pouces de largeur . .	156	25
,, 19 ,, . .	162	50
,, 22 ,, . .	168	75
,, 25 ,, et arrangée pour être tirée par un pony . .	262	50

151

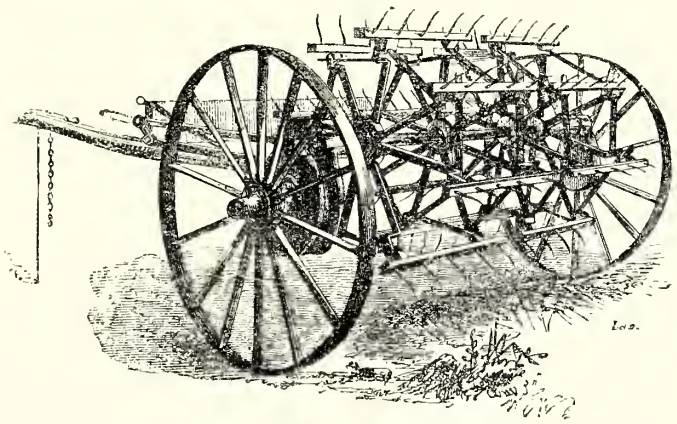
SKELTON'S SPADES.

Priced Lists of these goods may be had on application to the Manufacturers, or to Wm. Dray and Co., London.

151

BECHES DE SKELTON.

On peut obtenir des listes avec les prix de ces objets de W. Dray et C^IE, ou des fabricants; il suffit d'en faire la demande.



152

SMITH AND CO.'s PATENT HAYMAKING MACHINE.

The success which has attended the use of this Implement appears to be universal—a fact perhaps unprecedented in the history of Agricultural Machinery.

The Royal Agricultural Society have awarded no less than Six Prizes on different occasions for this Machine. Many Prizes have also been awarded by other leading Agricultural Societies throughout the kingdom.

The testimonials, which may be had on application to Wm. Dray and Co., London (and which might be multiplied *ad infinitum*), will show how unexceptional is the approbation bestowed upon the Haymaking Machine.

Prices :—	£.	s.
Delivered at the Works at Stamford	15	15
Delivered free at any railway station or wharf in London	16	16

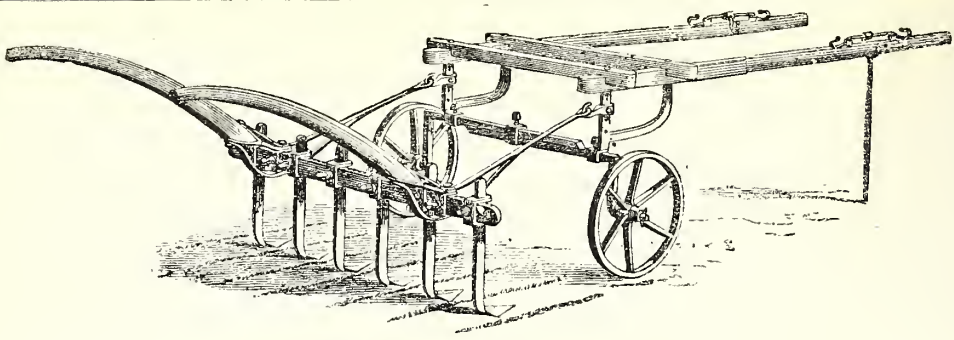
152

MACHINE À FAIRE LE FOIN, PATENTÉE PAR SMITH.

Le succès qu'a obtenu l'usage de cette machine est presque universel; c'est peut-être là un fait isolé dans l'histoire des instruments agricoles.

La Société Royale d'Agriculture n'a pas accordé moins de six Prix en différentes occasions à cette machine. Plusieurs autres Sociétés du royaume lui ont aussi accordé des Prix. Les certificats, qu'on peut demander de W. Dray et C^IE à Londres, et qu'on peut multiplier à l'infini, montreraient combien l'approbation de la machine à faire le foin est sans restriction.

Prix :—	fr.	c.
Livrée à la fabrique a Stamford . .	393	75
Livrée sans frais à l'une des stations ou sur l'un des quais à Londres .	420	0



153

SMITH's HORSE HOE.

Various Agricultural Societies have awarded Prizes for this Implement. It has also been commended by the Royal Agricultural Society of England.

This implement is suited to all sorts of drilled crops, and is adapted for hoeing wheat, barley, peas, beans, mangel wurzel, or turnips, at any given width that may be required.

It may be increased or diminished in width, to suit all lands or methods of planting; the axle-trees being moveable at both ends, either wheel may be expanded or contracted, so as always to be kept between the rows of plants.

The steerage of this implement is quite independent of the horse, so that a man may guide it to the greatest nicety, doing every execution to the weeds without injury to the crops.

The hoes are placed on a wrought-iron bar, and can be set to any width, from seven inches upwards, by loosening the screws of the clip which fastens them to the bar. The blades of the hoes are made of steel, and may be replaced by new ones as required.

In order to set the hoes to the necessary depth, the levers may be put in a more or less oblique position, by merely moving the pin which goes through the shaft-iron into different holes, which causes the edges of the hoes to be more or less inclined downwards, so as to be suited for cutting either hard or soft ground.

The two outside hoes may be placed parallel with the wheels so as to cut the ground which they run upon.

A Seed Drill can be attached, for sowing small seeds, which is driven by a pulley on the wheel.

PRICES :—

No. 1. A four-row steerage Horse Hoe, with single bar, including four 5-inch hoes, and four 7-inch steel blades with stems complete, and four clips for ditto; cast wheels, 1 ft. 6 in. over. 5*l.*

No. 3. A six-row steerage Horse Hoe, with single bar, including six 5-inch hoes, six 7-inch steel blades with stems complete, and six clips for ditto; cast wheels, 2 ft. 1 in. over; extra strong. 5*l.* 10*s.*

No. 5. A six-row steerage Horse Hoe, with double bar, including six 5-inch hoes, six 7-inch steel blades with stems complete, and six clips for ditto; cast wheels, 2 ft. 1 in. over; extra strong. 6*l.* 10*s.*

No. 7. A six-row steerage Horse Hoe, with double bar, including six 5-inch hoes, six 7-inch steel blades with stems complete, and six clips for ditto; wrought iron wheels, 2 ft. 4 in. over. 7*l.*

153

HOUE À UN CHEVAL, INVENTÉE PAR SMITH.

Plusieurs Sociétés Agricoles ont accordé des Prix à cet instrument. Il a de plus reçu une Mention Honorable de la Société Royale Agricole d'Angleterre.

Cet instrument convient à toutes sortes de terrains ensemencés, et il est adapté pour houer du blé, de l'orge, des pois, des navets, &c., à quelque largeur que ce soit.

Sa largeur peut être modifiée à volonté pour s'accommoder à tous les terrains et à tous les divers modes de planter; l'essieu étant mobile aux deux extrémités, l'une ou l'autre roue peut être reculée ou rapprochée, de manière à toujours occuper le milieu du rang des plants.

La direction de cet instrument est tout indépendante des mouvements du cheval, de telle sorte qu'elle est entièrement sous le controle de l'homme qui en est chargé et qui peut enlever toutes les mauvaises herbes sans nuire à la récolte.

Les houes sont disposées sur une barre de fer forgé et peuvent être placées à la largeur de sept pouces et au-dessus, en lâchant les vis de l'embrasse qui les attache a la barre. Les lames de la houe sont en acier, et peuvent être remplacées par d'autres s'il en est besoin.

Pour faire jouer les houes à la profondeur requise, on peut placer les leviers dans une position plus ou moins oblique en mettant la cheville qui traverse l'embrasse de fer, dans divers trous, ce qui fait que les taillants de la houe sont plus ou moins inclinés, de manière à les rendre propres à couper un terrain dur ou un terrain mou.

Les deux houes extérieures peuvent être placées en ligne parallèle avec les roues, de manière à couper le terrain sur lequel elles roulent.

On peut attacher à l'instrument un Semoir pour les petites graines, lequel est mis en action par une poulie fixée à la roue.

PRIX :—

N° 1. Une houe à cheval pour quatre rangs, avec une seule barre, y compris quatre houes de 5 pouces et quatre lames de 7 pouces avec les tiges, et quatre embrasses; roues en fer coulé d'un pied 6 p. 125 fr.

N° 3. Une houe à cheval et à six rangs, comprenant six houes de 5 pouces, six lames en acier de 7 pouces et tiges, et six embrasses; roues en fer coulé 2 pieds 1 p.; extra fort. 137 fr. 50 c.

N° 5. Une houe à cheval et à six rangs, avec double barre, comprenant six houes de 5 pouces, six lames d'acier de 7 pouces et tiges, de plus six embrasses; les roues sont en fer coulé, 2 pieds 1 p.; extra fort. 162 fr. 50 c.

N° 7. Une houe à cheval et à six rangs, double barre, y compris six houes de 5 pouces, six lames d'acier et tiges six embrasses; roues en fer forgé, 2 pieds 4 p. 175 fr

No. 9. A six-row steerage Horse Hoe, with double bar, including six 5-inch hoes, six 7-inch steel blades with stems complete, and nine clips for ditto; wrought iron wheels, 2 ft. 4 in. over. 7*l.* 10*s.*

EXTRAS.

Improved leverage to enable the workman to raise the hoes out of the ground when turning at the end of the land. 1*l.* 10*s.*

Four Hoes for ridged work, to either of the above. 10*s.*

Seed Drill, complete, fixed to either Nos. 3, 5, 7, or 9. 1*l.* 10*s.*

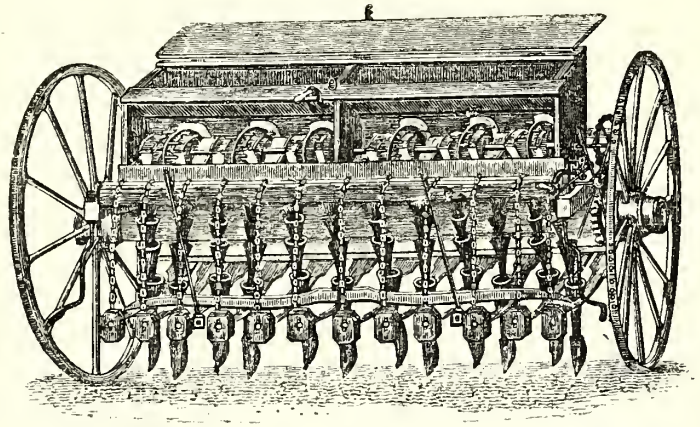
N° 9. Une houe à cheval et à six rangs, double barre, y compris six houes de 5 pouces, six lames d'acier de 7 pouces avec tiges, et neuf embrasses; roues en fer forgé, 2 pieds 4 p. 187 fr. 50 c.

EXTRAS.

Manches perfectionnées qui donnent à l'ouvrier la facilité de lever les houes de dessus le terrain quand il veut tourner à l'extrémité d'une pièce de terre. Prix, 37 fr.

Quatre houes à billons applicables à l'une de celles d'écrites ci-dessus, 12 fr. 50 c.

Semoir à graines, complet, fixé à l'une de ces houes, N^os 3, 5, 7, ou 9. Prix, 37 fr. 50 c.



154

SMYTH'S PATENT NINE-ROW DRILL,

Suitable for small Farms, with one Corn Barrel.
Price, 23*l.* 10*s.*

EXTRAS.

Fore Carriage Steerage, 4*l.*

Turnip or Mangold Wurzel Seed Barrels, each 1*l.* 5*s.*

A great many Prizes have been awarded to Messrs. SMYTH by the various English Agricultural Societies, including the Royal.

A complete List of the Drills manufactured by this celebrated house may be had on application to WM. DRAY and Co., London.

SMYTH AND SONS' SMALL OCCUPATION CORN DRILL.

This Machine is intended for drilling Grain or Seeds in rows, and is made upon the most improved and simplest construction.

It is held in very high estimation in England and Ireland, and has gained the following Prizes, viz., the Royal Agricultural Improvement Society of Ireland, at Galway, 1852, Gold Medal. The Royal Agricultural Society of England, at Gloucester, 1853, 5*l.* Ditto, at Lincoln, 1854, 5*l.*

154

SEMOIR DE SMYTH.

Ce Semoir patenté à neuf rangs convient surtout dans les petites fermes; il a un barril à blé.
Prix, 587 fr. 50 c.

EXTRAS.

Avant-train, 100 fr.

Barrils pour la graine de navet ou la betterave commune, chaque, 30 fr.

Un grand nombre de Prix ont été accordés à Messrs. Smyth par divers Sociétés Agricoles d'Angleterre, y compris la Société Royale. Une liste complète des Semoirs fabriqués par cette maison est distribuée à Londres par W. DRAY et C^IE.

SEMOIR POUR LE BLÉ A L'USAGE DES PETITS FERMIERS, DE SMYTH ET FILS.

Cette machine sert à semer du grain ou des semences en rangs, et sa construction est d'une simplicité extrême quoiqu'elle admette tous les plus récents perfectionnements.

On en fait le plus grand cas en Angleterre et en Irlande, et on lui a décerné les Prix suivants :—

La Société Royale pour le Perfectionnement de l'Agriculture en Irlande, à Galway, en 1852, la Médaille d'Or. La Société Royale Agricole d'Angleterre, en 1853, à Gloucester, un Prix de 5*l.* La même Société en 1854, à Lincoln, un Prix de 5*l.*

155

STANLEY'S ROLLER MILL, or CORN-BRUISING MACHINE.

For Bruising Linseed, Oats, Barley, Malt, &c.

PRICES :—	£.	*s.*	
No. 1	13	0	
Pulley for power . .	0	12	extra
No. 2	16	10	
No. 3	8	0	
No. 4	6	0	

155

MOULIN A ROULEAU DE STANLEY, OU MACHINE A BROYER LE GRAIN.

Elle sert à broyer la graine de lin, l'avoine, l'orge, le malt, &c.

PRIX :—	fr.	c.	
N° 1.	325	0	
Poulie d'adjonction . .	15	0	extra.
2.	412	50	
3.	200	0	
4.	150	0	

STANLEY's FARMERS' STEAMING APPARATUS,

For Cooking Hay, Chaff, Roots, Linseed, &c., for Cattle.

Various Prizes have been awarded by the Royal Agricultural Society and others.

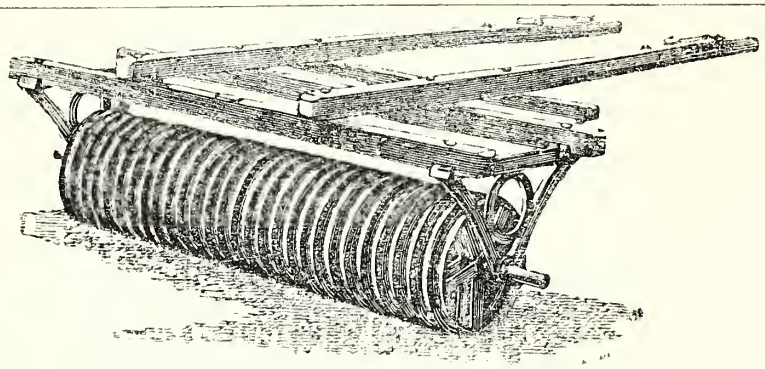
Prices :—	£.	s.
Steam Generator and 6-bushel Steaming Pan	12	10
Steam Generator, a 40-gallon Tub, lined with copper, and a 6-bushel Steaming Pan	17	10

APPAREIL À VAPEUR À L'USAGE DES FERMIERS,

Pour Cuire le Foin, la Paille, les Racines, la Graine de Lin, &c., pour les Bestiaux, inventé par STANLEY.

Plusieurs Prix ont été accordés à l'inventeur par la Société Royale d'Agriculture et diverses autres.

Prix :—	fr.	c.
Générateur de la vapeur et une marmite de la capacité de six boisseaux	312	50
Générateur de la vapeur avec tonneau de 40 gallons, doublé en cuivre, et une marmite de la capacité de six boisseaux	437	50



CAMBRIDGE's PRESS ROLLER OR CLOD CRUSHER.

This implement is much used for other purposes besides clod-crushing; namely, for rolling meadows or pasture land, also parks and lawns. By breaking the hard surface of the land, the grass springs up thickly, and of luxuriant appearance.

The Press Roller is also very effectual for re-setting wheat, vetches, and other plants made light by frost; and the ravages of the wire-worm or grub are at once stopped by its application.

Prizes have been awarded by various Agricultural Societies.

Prices :—	£.	s.
5 feet wide, 15 inches diameter . .	10	0
6 feet wide, 20 inches diameter . .	13	10
6 feet wide, 26 inches diameter . .	16	0

Other sizes if required.

Double shafts, 1*l.* 5*s.* extra.

ROULEAU À PRESSER DE CAMBRIDGE OU ECRASSEUR DE MOTTES.

Cet instrument peut encore servir à d'autres usages; par exemple, pour rouler les prairies ou les terres à pâture, les parcs, les pelouses, et après qu'on à brisé la surface dure du terrain, le gazon pousse vite et dru et a une apparence luxuriante.

Le Rouleau à Presser est surtout très efficace pour raffermir le blé, la vèce et d'autres plantes que la gelée a rendu faibles, et par son emploi on arrête de suite les ravages du charençon.

Divers Prix ont été accordés à l'inventeur par plusieurs Sociétés d'Agriculture.

Prix :—	fr.	c.
5 pieds de large 15 pouces de diamètre	250	0
6 ,, 20 ,,	337	50
6 ,, 26 ,,	400	0

On peut obtenir d'autres dimensions.

Doubles brancards, 31 fr. extra.

156

USHER's PATENT STEAM PLOUGH.

(*For Engraving, see p.* 29.)

This invention consists, firstly, in mounting a series of ploughs in the same plane around an axis, so that the ploughs shall successively come into action; and, secondly, in applying power to give rotary motion to a series of ploughs or other instruments for tilling the earth, so that the resistance of the earth to the ploughs or instruments, as they enter and travel through the earth, shall cause the machine to be propelled; thus making the ploughs act in the earth in the same way as paddle wheels do in the water, by which the vessel is moved along, and the resistance of the earth being greater than the water, the power obtained is proportionally more.

It will be seen that not only the ploughs which are set in the same plane around the axis follow each other into action, but that the ploughs of the other sets (which are affixed around the axis in parallel planes) are arranged and come into action so that two ploughshares will not strike the earth at the same instant.

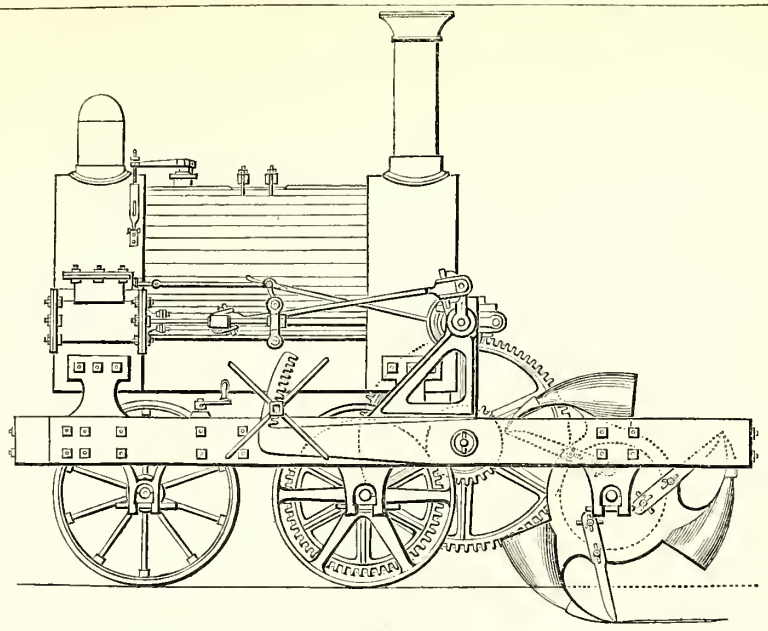
156

CHARRUE MUE PAR LA VAPEUR, INVENTÉE PAR USHER.

(*Voir p.* 29 *pour le Dessin.*)

Cette invention consiste, 1°, à présenter une série de charrues au même endroit autour d'un axe, de telle sorte que la charrue soit nécessairement mise en action; 2°, d'appliquer la force nécessaire pour donner une motion rotatoire à une série de charrues ou d'autres instruments aratoires, de telle sorte que la résistance de la terre aux charrues ou instruments, au moment où ils pénètrent et travaillent dans la terre, mette la machine en action; et faisant ainsi travailler les charrues dans la terre de la même façon que le font dans l'eau les roues d'une machine à vapeur pour faire marcher un vaisseau, et la résistance du terrain étant plus grande que celle de l'eau, la force de propulsion en est d'autant plus grande.

On verra que non seulement les charrues placées sur le même plan autour de l'axe, sont mises en action l'une après l'autre, mais que les charrues des autres assortiments (qui sont fixées autour de l'axe en ligne parallèle plane) sont arrangées et mises en action, de

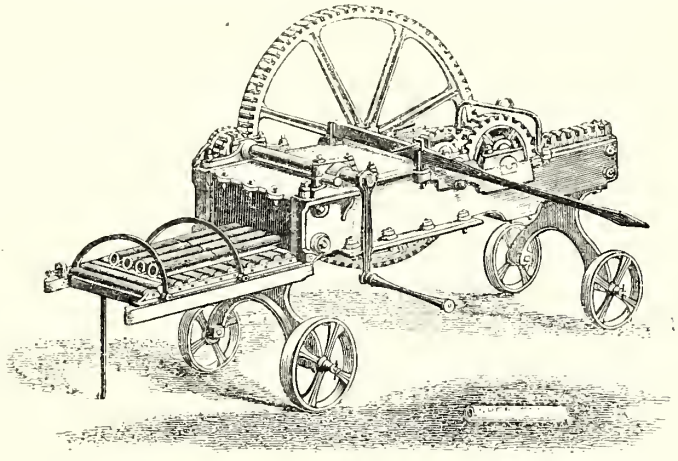


In the arrangement of the apparatus before described, it will be seen that the propelling of the machine along the land is by reason of the resistance of the land to the ploughs as they enter and travel through the earth, and the motion communicated to the wheels or rollers. This part of the invention is applicable where teeth or tines suitable for tilling the earth are applied about an axis, and will be found to act better than machines in which tines or teeth set around an axis have had motion communicated to them from the wheels which run on the land. In thus using this part of the invention, the only change necessary will be to employ a rotary axis, *u*, having tines or teeth of any suitable shape, in place of the ploughs shown in the engraving.

Price, about 500*l.*

telle sorte que deux socs ne frappent pas la terre au même instant. Dans l'agencement de l'appareil ci-dessus décrit on verra que la propulsion de la machine le long d'un terrain est en raison de la résistance du terrain aux charrues pendant qu'elles y pénètrent, et du mouvement imprimé aux roues ou rouleaux. Cette partie de l'invention est applicable où les dents faites pour travailler la terre sont placées autour d'un axe, et on trouvera qu'elle est plus efficace que les machines dans lesquelles les dents placées autour d'un axe, ne recevaient leur mouvement que des roues qui roulent sur le terrain. En employant cette partie de l'invention, le seul changement à faire sera d'employer un axe rotatoire, *u*, ayant des dents de la forme la plus convenable, au lieu des charrues qu'on voit dans le dessin.

Prix, environ 12,500 fr.



157

WHITEHEAD's TILE-MAKING MACHINE.

The above engraving is not an exact representation of Whitehead's Machine, but will suffice to give an idea of the fashion of the implement.

157

MACHINE À FAIRE DES TUILES, DE WHITEHEAD.

Le dessin ci-dessus ne représente pas exactement la machine de Whitehead, mais il suffira pour en donner une idée.

This Machine is calculated for making Drain Pipes and Tiles of all descriptions, also Hollow Bricks.

No. 1. A single-box Machine. It will make pipes up to 6½ inches bore, and with the expanding mouth-piece, up to 15 inches bore. It is made portable, so that it may be removed to any part of the drying shed. It may be worked by one man and a boy, and will produce 8,000 two-inch tiles a day.

Price of the Machine, with Table and Cutters, 23*l.*

No. 2 Machine is similar to the above but with two boxes, one at each end. It is worked by a man and two boys, and will make 12,000 two-inch Pipes a day.

Price, with Table and Cutter, 31*l.*

Steam or Horse Power may be applied to either of the above at an extra cost for the apparatus of 5*l.* 5*s.*

No. 0 Tile Machine is similar to No. 1, but smaller. Price, with Table and Cutters, 16*l.*

Screen Plates and Dies are charged extra.

Cette machine a pour but de faire des tuyaux de dessèchement et des tuiles de toutes sortes, et de plus des briques creuses.

N° 1. Machine d'une seule boîte. Elle fait des tuyaux de 6 pouces ½ d'ouverture, et avec la pièce déployante d'ouverture peut atteindre 15 pouces. Elle est portative, de telle sorte qu'on peut l'enlever et la placer sous l'apprentis. Un homme et un petit garçon suffisent pour la faire marcher. Elle produit 8,000 briques de 2 pouces par jour.

Prix de la machine, avec table et couteaux, 575 fr.

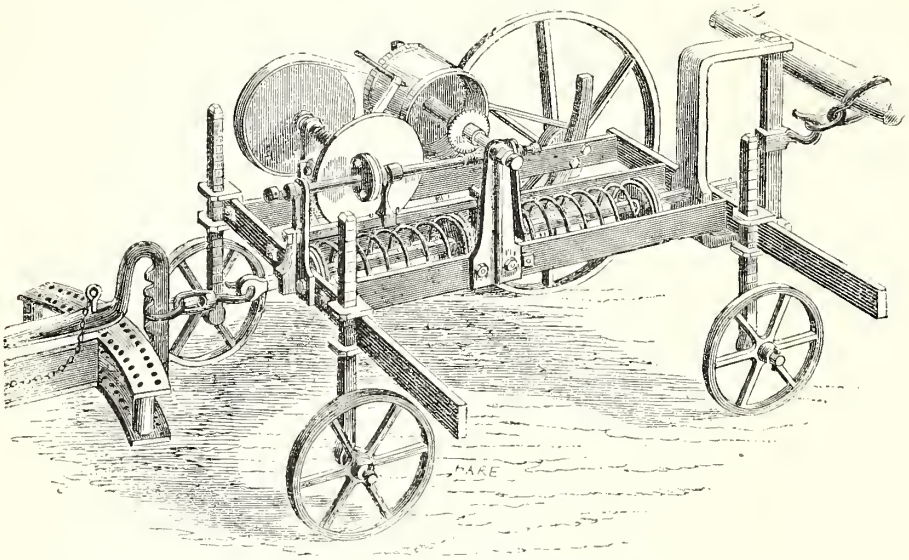
N° 2. Cette machine est semblable à la précédente, mais elles a deux boîtes, une à chaque extrémité. Un homme et deux petits garçons la font marcher et font 12,000 tuyaux de 2 pouces par jour.

Prix, avec la table et couteaux, 775 fr.

On peut employer un cheval ou la vapeur à ces machines avec une dépense extra de 131 fr. 25 c.

N° 0 est une machine semblable à celle du N° 1, mais plus petite. Prix, y compris la table et les couteaux, 400 fr.

Les cribles et les coins sont extra.



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BENTALL's PATENT SELF-REGISTERING DYNAMOMETER.

(Invented and manufactured by the Exhibitor.)

This instrument is intended to test the draught of ploughs. The force exerted by the horses being made to compress two spiral springs, the register of the draught is regulated by this compression. It is supported by an iron frame and four travelling wheels. A strap from the nave of one of these wheels drives a rigger, and with it a metal disc fixed on the same axle. The flat surface of this disc acts on an edged runner, which is capable of sliding on its axle, and is, during the experiment, moved by means of a fork connected with the spiral spring to various distances from the centre of the disc proportioned to the compression of the springs; it is, therefore, driven faster or slower in direct proportion to the draught of the plough. On the same axle with the edged runner is a worm that acts on a cogged wheel, along with which revolves a drum with a speed proportioned to that of the runner; hence a line drawn by a fixed pencil on paper coiled around the drum would, for equal lengths of furrow, be proportioned to the draught of the plough. But

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DYNAMOMÈTRE PATENTÉ DONT L'ACTION REGLE LE REGISTRE, DE BENTALL.

(Inventé et fabriqué par Bentall.)

Cet instrument a pour but de mettre à l'épreuve le tirage des charrues. La force déployée par les chevaux faisant comprimer deux ressorts en spirale, le registre du tirage est réglé par cette compression. Il est supporté par une monture en fer et quatre roues adhérentes. Une courroie partant du moyen de l'une de ces roues fait mouvir un tendeur de courroie, et avec lui un disque de métal fixé sur le même axe. La surface plate de ce disque agit sur un coulant aiguisé, qui peut glisser sur son axe, et qui est, pendant l'expérience, mis en mouvement par le moyen d'une fourche en rapport avec les ressorts en spirale à diverses distances du centre du disque en raison de la compression des ressorts; il est donc mis en action plus lentement ou plus vite en raison directe du tirage de la charrue. Sur le même axe que le coulant est un écrou, qui agit sur une roue dentelée avec laquelle tourne un tambour dont la vitesse est réglée sur celle du coulant. Il en résulte qu'une ligne tirée par un crayon fixé sur un papier mis autour du tambour, serait, pour

motion is given to the pencil in a direction parallel to the axis of the drum, by a screw cut on the spindle carrying the disc, and the motion in this direction represents the length of furrow drawn; while the two motions combined cause the pencil to describe a diagonal, showing the variations of the draught during the experiment, the line becoming more nearly parallel with the axis of the drum as the draught is less, and *vice versâ*. A brass wheel with its edge graduated revolves also with the drum, to show the degree of draught in stones, when a determinate length of furrow is drawn. This may be used or not, as may be found most convenient.

There are several obvious advantages belonging to the peculiar construction of this instrument. In the first place, no special means are needed to obviate the vibratory motion that ordinarily interferes with other modes of construction; for the power that moves the drum acts uniformly in one direction, and the only effect produced on the drum by variation of draught is simply increase or diminution of speed.

Secondly, the draught, with all its variations, is registered by the instrument itself, without requiring the attention of the experimenter.

Thirdly, no after calculations of averages are needed.

Fourthly, while in ordinary cases averages are calculated from a limited number of observations, the averages registered by this instrument are the same as if calculated from an infinite series, for the additions are made at every instant, from the commencement to the termination of the experiment.

This Machine is employed by the Royal Agricultural Society of England, and others, for testing the ploughs which compete for the Prizes at the annual Agricultural Shows.

Price, 30*l.*

les longueurs égales de sillon, proportionnée au tirage de la charrue. Mais le mouvement est imprimé au crayon dans une direction parallèle à l'axe du tambour, par une vis coupée sur la tige qui porte le disque, et le mouvement dans cette direction représente la longueur de sillon tirée; tandisque les deux mouvements combinés font décrire une diagonale au crayon, montrant les variations du tirage pendant l'expérience, la ligne devenant de plus en plus parallèle à l'axe du tambour au fur et à mesure que le tirage diminue, et *vice versâ*. Une roue en cuivre avec des divisions sur les bords tourne aussi avec le tambour, pour montrer le degré de tirage dans les pierres, quand il y a une longueur déterminée de sillon tirée. On peut faire usage de ceci à volonté selon l'occasion.

Plusieurs grands avantages résultent de la construction toute particulière de l'instrument. 1°, il n'y a pas besoin de moyens spéciaux pour obvier au mouvement vibratoire qui ordinairement se trouve dans les autres modes de construction; car la force qui fait mouvoir le tambour agit uniformément dans une direction, et le seul effet produit sur le tambour par la variation du tirage se réduit à une augmentation ou une diminution de vitesse.

2°. Le tirage avec toutes ses variations est indiqué par l'instrument même, sans que l'expérimentateur soit obligé de s'en occuper.

3°. Il devient inutile de faire des calculs ultérieurs, ou de prendre des moyennes.

4°. Tandisque dans les cas ordinaires des moyennes sont établies d'après un nombre limité d'observations, les moyennes marquées par l'instrument sont les mêmes que si elles étaient calculées sur une série infinie, car les additions sont faites à chaque instant, depuis le commencement jusqu'à la fin de l'expérience.

Cette Machine est employée par la Société Royale d'Agriculture d'Angleterre et par d'autres pour éprouver les charrues qui concourrent pour les Prix aux Expositions Agricoles de chaque année.

Prix, 750 fr.

369

WHEELS MANUFACTURED BY MACHINERY, BY THE BOROUGH WHEEL-WORKS COMPANY.

Low Phaeton.

	Per set. £. s. d.
From	3 15 0 to 4 0 0

Spring Cart.

	£. s. d.
Not exceeding 4 ft. 10 in. high, 14 spokes, per pair	4 0 0
Not exceeding 5 ft. high, 16 spokes, per pair	4 10 0

Gig and Dog Cart.

Not exceeding 4 ft. 8 in. high, 14 spokes, per pair	4 4 0
Not exceeding 5 ft. high, 16 spokes, per pair	4 10 0

OMNIBUS WHEELS.

	Price. Front Pair. £. s. d.	Price. Hind Pair. £. s. d.	Painting. Front Pair. s. d.	Painting. Hind Pair. s. d.	Boxing. Per Set. s. d.	Price. Complete. £. s. d.
Ash Felloes	2 18 6	4 0 0	9 0	12 0	7 0	8 6 6
Beech ditto	2 17 0	3 19 0	9 0	12 0	7 0	8 4 0

369

ROUES FAITES À LA MÉCANIQUE PAR LE BOROUGH WHEEL-WORKS COMPANY.

Phaeton Bas.

	Par Assortiment. fr. c. à fr. c.
De	93 75 à 100 0

Charrette Suspendue.

	fr. c.
Qui ne dépasse pas 4 p. 10 p. de haut, 14 rayons . . . . . la paire	100 0
Id. 5 pieds de haut, 16 rayons ,,	112 50

Cabriolet Bourgeois.

Qui ne dépasse pas 4 p. 8 p. de haut, 14 rayons . . . . . la paire	104 80
Id. 5 pieds de haut, 16 rayons ,,	112 50

ROUES D'OMNIBUS.

	Prix. Roues de Devant. fr. c.	Prix. Roues de Derrière fr. c.	Peinture. Roues de Devant. fr. c.	Peinture. Roues de Derrière fr. c.	Siège. Par Assort. fr. c.	Prix. Complet. fr. c.
Jantes en frêne	73 10	100 0	11 25	15 0	8 75	10 0
Id. en hêtre	71 25	98 75	11 25	15 0	8 75	15 0

VAN WHEELS.

Width of Tire.	Height not exceeding Front.	Height not exceeding Hind.	Price, Painted and Boxed. Front Pair.	Hind Pair.	Per Set.
	ft. in.	ft. in.	£. s. d.	£. s. d.	£. s. d.
2 inches .	3 6	4 9	3 3 0	4 4 0	7 7 0
2½ ,, .	3 6	4 9	3 9 0	6 0 0	9 9 0
3 ,, .	3 6	5 0	4 4 0	7 7 0	11 11 0

WAGGON WHEELS.

3 ,, .	4 8	5 4	6 6 0	7 7 0	13 13 0
4 ,, .	4 8	5 4	7 0 0	8 15 0	15 15 0
4½ ,, .	4 8	5 4	7 7 0	9 9 0	16 16 0
6 ,, .	4 8	5 4	8 8 0	10 10 0	18 18 0

CART WHEELS.

Width of Tire.	Height not exceeding	No. of Spokes.	Price Per Pair.	
	ft. in		£. s. d.	
2 inches .	5 0	14	4 4 0	Boxed only.
2½ ,, .	5 0	14	6 6 0	Boxed & Painted.
3 ,, .	5 4	14	7 7 0	,,
4 ,, .	5 4	14	8 15 0	,,
5 ,, .	5 4	14	10 0 0	,,
6 ,, .	5 4	14	10 10 0	,,

DRAY WHEELS.

2 inches .	4 8	12	3 15 0	Boxed & Painted.
2½ ,, .	4 8	12	5 0 0	,,
3 ,, .	4 8	12	6 6 0	,,
4 ,, .	4 8	12	7 0 0	,,
5 ,, .	4 8	12	7 17 0	,,
6 ,, .	4 8	12	8 8 0	,,

SCOTCH CART WHEELS.

3 inches .	4 8	12	4 10 0	Boxed & Painted.
4 ,, .	4 8	12	5 5 0	,,
5 ,, .	4 8	12	6 6 0	,,
6 ,, .	4 8	12	7 7 0	,,

ROUES DE TAPISSIERE.

Largeur de la Bande.	Hauteur qui ne depasse pas. Devant.	Derrière.	Prix, avec la Peinture et le Siège. Paire de devant.	Paire de derrière.	Par Assort.
	pds. p.	pds. p.	fr. c.	fr. c.	fr. c.
2 pouces	3 6	4 0	78 75	105 0	183 75
2½ ,,	3 6	4 9	86 25	150 0	236 25
3 ,,	3 6	5 0			

ROUES DE WAGON.

3 pouces	4 8	5 4	157 50	183 73	341 25
4 ,,	4 8	5 4	175 0	218 75	393 75
4½ ,,	4 8	5 4	183 75	236 25	420 0
6 ,,	4 8	5 4	210 0	241 25	472 50

ROUES DE CHARRETTES.

Largeur de la Bande.	Hauteur qui ne dépasse pas.	Nombre de Rayons.	Prix par Paire.	
	pds. p.		fr. c.	
2 pouces	5 0	14	105 0	Siège seulement.
2½ ,,	5 0	14	167 50	Siège et ure.
3 ,,	5 4	14	183 75	,,
4 ,,	5 4	14	218 75	,,
5 ,,	5 4	14	250 0	,,
6 ,,	5 4	14	262 50	,,

ROUES DE CHARRIOT DE TRAIT.

2 pouces	4 8	12	78 75	Siège et peinture.
2½ ,,	4 8	12	125 0	,,
3 ,,	4 8	12	167 50	,,
4 ,,	4 8	12	175 0	,,
5 ,,	4 8	12	192 50	,,
6 ,,	4 8	12	210 0	,,

ROUES DE CHARRETTES ÉCOSSAISES.

3 pouces	4 8	12	112 50	Siège et peinture.
4 ,,	4 8	12	131 25	,,
5 ,,	4 8	12	183 75	,,
6 ,,	4 8	12		,,

WILLIAM DRAY AND CO.,

Agricultural Engineers,

AND

AGENTS FOR ALL THE AGRICULTURAL IMPLEMENT MANUFACTURERS,

SWAN LANE, UPPER THAMES STREET,

LONDON.

WILLIAM DRAY ET CIE,

Ingénieurs de l'Agriculture,

ET

AGENTS DE TOUS LES FABRICANTS D'INSTRUMENTS ARATOIRES,

SWAN LANE, UPPER THAMES STREET,

A LONDRES.

NOTICE.

A Gentleman, representing the house of Wm. Dray and Co., will be found in constant attendance in the Agricultural Department (Class III.) through the entire duration of the Paris Universal Exhibition.

Wm. Dray and Co. have arranged with most of the Agricultural Implement Manufacturers to take charge of their Stands.

Wm. Dray and Co.'s representative will take orders for any Machinery exhibited; and will afford every information respecting English Agricultural Engineering, &c.

Wm. Dray and Co. take this opportunity of inviting the attention of Agriculturists, Merchants, &c., to their extensive London Depôt. They venture to boast of one of the largest and best-selected stocks of Agricultural and general Machinery in the kingdom. Their warehouses have become a museum of all the scientific inventions of the day, in relation to Implements for farm use. The large stock kept enables them to execute orders with the utmost promptitude; while all goods are supplied on the same terms as if procured direct from the various manufacturers. In fact, the central position of Wm. Dray and Co.'s Warehouse in the Metropolis enables them frequently to effect a saving in the cost of carriage. Wm. Dray and Co. never charge for cartage, but undertake to deliver goods to the various Railway Stations in London, to the Wharfs on the Thames, or to the Docks, free of all expense.

Their customers thus save not only a considerable outlay in many instances, but an endless amount of trouble and annoyance. Wm. Dray and Co. will be happy to furnish, *post-free*, list of prices, and any information desired respecting Agricultural Machinery, Implements, Tools, &c. A complete Catalogue, illustrated and priced, will be forwarded on receipt of twelve postage stamps.

The Prices quoted in this Catalogue are for Goods in London. All foreign orders to be accompanied by an order for payment in London upon presentation of invoice.

A sufficient sum must be added to the prices marked to cover the difference of the rate of exchange and the delivery of the goods in France.

London: Printed by W. Clowes and Sons.

AVIS.

Pendant toute la durée de l'Exposition Universelle de Paris, on trouvera dans la Section de l'Agriculture (3e Classe) une personne chargée de représenter la maison de Wm. Dray et C^IE.

MM. Wm. Dray et C^IE se sont arrangés avec la plupart des fabricants d'instruments aratoires pour veiller à leurs stalles.

Le représentant de la maison Wm. Dray et C^IE recevra des commandes pour toutes les machines exposées; et il sera toujours prêt à donner toute espèce de renseignements sur les procédés des ingénieurs anglais en matière d'agriculture.

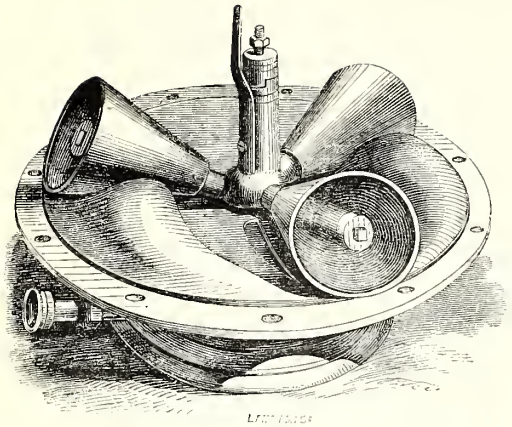
Wm. Dray et C^IE saisissent cette occasion d'attirer l'attention des Agriculteurs, Négociants, &c., sur leur immense Dépot à Londres. Ils peuvent affirmer que c'est un des plus considérables et un de ceux qui sont le mieux assortis en toutes sortes d'instruments aratoires et en machines en général. Leurs magasins sont devenus des espèces de musées de toutes les inventions de l'époque quant à ce qui concerne les machines en usage dans les fermes. L'énorme quantité de ces machines permet à Wm. Dray et C^IE de satisfaire à toutes les exigences des agriculteurs avec une extrême promptitude, tandis que d'un autre côté toutes les marchandises sont livrées aux mêmes prix que si elles étaient prises chez les fabricants eux-mêmes. Le fait est que la position centrale des magasins de Wm. Dray et C^IE dans la capitale, leur permet d'effectuer une économie sur les frais de transport. La maison ne prend jamais de frais de transport, mais entreprend de livrer les marchandises aux diverses stations de chemins de fer à Londres, aux quais de la Tamise, ou aux docks, et cela sans frais.

Ceux qui traitent avec eux s'épargnent ainsi non-seulement une grande dépense dans beaucoup de cas, mais une foule d'inconvénients et de peine. Wm. Dray et C^IE sont prêts à donner, franco, les listes des prix et tous les renseignements qui se rattachent aux machines, aux instruments aratoires, ustensiles, outils, &c. Sur le reçu de 12 timbres de poste, ils envoient un Catalogue complet et illustré.

Les Prix cotés dans ce Catalogue sont pour les Marchandises à Londres. Tous les ordres des pays étrangers doivent être accompagnés d'un mandat de paiement à Londres sur présentation de la lettre d'envoi.

Il faut ajouter aux prix marqués des ustensiles et machines, une somme suffisante de couvrir la différence du cours d'échange et les frais de transport à leur destination en France.

Londres: Imprimerie de W. Clowes et Fils.



HANSON & CHADWICK'S

PATENT HIGH PRESSURE

WATER METER.

This novel and simple contrivance is intended to meet the requirements of Water Companies, and all parties using large or uncertain quantities of Water, either for Trade purposes or domestic consumption.

1st.—It will measure the Water direct from the Water-Works' Pipes, and deliver it without any appreciable loss of pressure, thus obviating the general necessity of Cisterns.

2nd.—It will measure correctly, under all variations of pressure.

3rd.—*It will not allow the smallest quantity of Water to pass without being registered;* whilst all Meters where the measurement is indicated by the force or pressure of the Water against a spiral wheel or drum, *do* allow small quantities to leak through unregistered.

4th.—It works without noise or concussion, and consequently can never burst or damage the Pipes by the sudden and violent "*shutting off motion*" complained of in other contrivances.

5th.—It is a "*positive measurer,*" a chamber of known capacity being filled and emptied at each revolution of the spindle connected with the Index.

6th.—It is exceedingly simple in its construction, there being neither lever, crank, nor valve in it.

7th.—It is substantial and durable, and cheaper than any other positive measurer. Its durability will be guaranteed for 10 years, or any longer period, at a reasonable charge for wear and tear.

LICENSED MAKERS:

MESSRS. MATHER & PLATT, *Salford Iron Works, Garden Lane, Salford.*

MESSRS. HERBERT FROST & Co., *Angle Street Works, Clarendon Street, Oxford Street, Manchester.*

PRICES:—

Size.	Bore of Pipe.		
No. 1	½ inch	To measure 250 gallons per hour, or any less quantity . .	£4 4 0
,, 2	¾ ,,	Ditto 500 ,, ,, ...	5 5 0
,, 3	1 ,,	Ditto 1000 ,, ,, ...	6 6 0
,, 4	1½ ,,	Ditto 2500 ,, ,, ...	9 9 0
,, 5	2 ,,	Ditto 4000 ,, ,, ...	12 12 0
,, 6	3 ,,	Ditto 9000 ,, ,, ...	18 18 0
,, 7	4 ,,	Ditto 16000 ,, ,, ...	25 0 0

Including two sets of brass unions for connecting to the Pipes.

HANSON & CHADWICK, Patentees.
Salford, Manchester April, 1855.

HANSON AND CHADWICK'S PATENT WATER METERS.

Extract from the Minutes of Proceedings of the Institution of Civil Engineers, Vol. 13, Sessions 1853-4—"On Water Meters." By David Chadwick, Assoc. Inst. C.E.*

"In the Water Meter now submitted by Messrs. Hanson and Chadwick of Salford, Manchester, the water enters at the bottom of the Meter, into a chamber supplied with a sieve of wire gauze, to prevent silt, gravel, &c. from entering the meter; it then passes into two semi-circular bags of vulcanized Indian Rubber, firmly fixed on a level bed, one end of each bag opening into the meter; upon these bags rest three conical metal rollers attached to a central shaft which is connected with ordinary counting wheels and a dial. The water, on passing into the bags, propels the rollers round continuously, each revolution registering exactly the contents of the bags.

"The rollers work in the water, which is of course under the same pressure in the meter, as in the pipes, and is delivered at the exit without any appreciable loss of pressure.

"The rollers pressing on the bags render them valve-tight, and the water can only escape at the end of each bag, when the rollers have travelled their half circle.

"As a very small amount of pressure is sufficient to move the rollers forward, the bags are never unduly distended, the rollers constantly keeping in advance of the water passing through the bags.

"These meters combine the accuracy of those on the piston and cylinder principle, with the cheapness of production, of those of any other class; they will register at every velocity, from the highest to the lowest pressure, and have been tested at the rate of one gallon per hour, whilst scarcely any other meter on the wheel, the spiral fan, or the drum principle, will register at one gallon per minute, or 60 times the quantity.

"These meters present an entirely new and simple method of measuring fluids, under varying velocities, without diminishing the pressure; they will measure the smallest, or the largest quantities of water, or other fluid passed through them, without being regulated to any given pressure; they are portable, strong, and durable, and cannot easily be put out of order, and all their parts are so constructed as to be replaced with facility in case of need."

(*See also 'The Journal of the Society of Arts,' 'The Builder,' 'The Artizan,' 'The Civil Engineer's Journal,' &c.*)

* The Council Premium of the Institution of Civil Engineers was awarded to Mr. Chadwick in December, 1854.

Copy of Certificate as to the Durability of the Indian Rubber Chambers used in Hanson and Chadwick's Patent Water Meter.

Cambridge Street, Oxford Street, Manchester,

SIR, *And* 3, *Cannon Street West, London, May 8th* 1854.

In reply to your question, "Has long continued immersion in Water any deteriorating effect on our Vulcanized Indian Rubber?"—we beg to say that the only effect is a slight change of colour, or hydrate, produced by superficial absorption, which change of colour disappears on the article being dried.

We take this opportunity of saying, that were we required to select a situation in which our Vulcanized Indian Rubber should retain its valuable properties for the greatest number of years, we should certainly choose "Immersion in Water."

We have had many years' experience in the Manufacture of Pipe Joints, Base Pipes, and Valves for Stationary and Ocean Steam Engines, and have never known a case where the Rubber has been injured by the action of Water, whether of River, the Sea, or Mineral Springs.

We are of opinion that the *Vulcanized Indian Rubber Chambers used in your Meters will retain their elasticity, figure, and capacity for a long period;* indeed, we believe that the Elastic Chambers will *endure as long as the Metallic parts.*

We are, Sir,

Your obediant Servants,

DAVID CHADWICK, ESQ., *Salford.* CHARLES MACINTOSH & Co.

Extract from the Report of the Jury on Civil Engineering and Machines for Direct Use, Class 5, Great Exhibition of 1851.

WATER METERS.

"To afford an unlimited supply of water, it is necessary, that some means should be afforded, of measuring the quantity each house consumes. If each house were provided with a reservoir, into which the water, for its consumption, were from time to time received, and from which it was distributed, this would be comparatively easy, by means of a meter constructed on the principle of a rain guage, with a divided chamber and a tumbling shoot. *The desideratum is, however, to measure the efflux directly from the pipes, under whatever pressure the service may be made,* and to dispense with the reservoir. Five different contrivances for this object are exhibited. The Jury has however found none so far perfected as to satisfy the conditions of a good meter. In the majority of them, the measurement is made by the revolution of a fan, like a screw propeller, fixed within the pipe and driven round by the effluent stream. Among other objections to which this principle of construction is liable, is the fact, that a considerable leakage may be obtained, without giving sufficient motion to drive the fan.

"A water meter is exhibited, constructed on the well-known principle of the disc steam engine. Although this is free from the defects which belong to meters constructed on the principle of the revolving fan, it is open to those of insecure packing and unequal wear.

LIGHT, CHEAP, AND DURABLE ROOFING.

CROGGON'S

PATENT ASPHALTE ROOFING FELT

IS PERFECTLY IMPERVIOUS TO RAIN, SNOW, AND FROST,

AND HAS BEEN TESTED BY

A LONG AND EXTENSIVE EXPERIENCE IN ALL CLIMATES;

SAVES HALF THE TIMBER REQUIRED FOR SLATES; CAN BE LAID ON WITH GREAT FACILITY BY FARM SERVANTS OR UNPRACTISED PERSONS.

PRICE ONE PENNY PER SQUARE FOOT.

CROGGON'S

PATENT NON-CONDUCTING FELT,

FOR STEAM-BOILERS AND PIPES,

SAVES 25 PER CENT. OF FUEL.

SAMPLES AND TESTIMONIALS SENT BY POST ON APPLICATION TO

CROGGON & CO.,

2 DOWGATE HILL, LONDON,

WHO ALSO SUPPLY

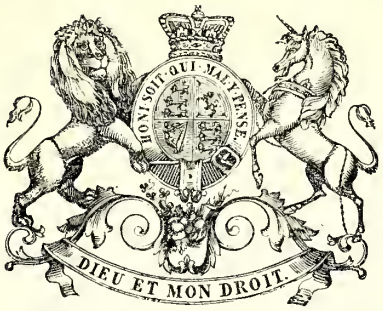
SHIP SHEATHING FELT,

AND

INODOROUS FELT FOR DAMP WALLS, &c.

PATRONISED BY HIS ROYAL HIGHNESS PRINCE ALBERT,

THE QUEEN OF SPAIN,



THE FRENCH AND PRUSSIAN GOVERNMENTS.

RICHARD HORNSBY & SON,

ENGINEERS,

AGRICULTURAL MACHINE MAKERS, &c., &c.,

Spittlegate Iron Works,

GRANTHAM, LINCOLNSHIRE, ENGLAND,

Invite the attention of Continental Agriculturists, Exporters, and others, to their Stand,

No. 143, Class 3, Agriculture,

In the Palace of the Paris Universal Exhibition of 1855:

Where will be found specimens of the Engines and Machinery which for some years past have placed this Firm in the proud position of the first in England as Agricultural Engineers, as will be seen by the Lists of Prizes given in their Catalogue of Manufactures, comprising,—

PORTABLE AND FIXED STEAM ENGINES,

THRASHING MACHINES

Of every description, including their Patent Portable Combined Machines, for Thrashing, Shaking, and Dressing Corn at one operation, suited for steam power; as also their very

COMPLETE FIXED MACHINES FOR STEAM OR WATER POWER;

AND EVERY VARIETY OF

DRILLS, CORN DRESSING MACHINES,

STRAW SHAKERS, CHAFF CUTTERS, CAKE BREAKERS, BONE MILLS, LAND ROLLERS,

AND OTHER IMPLEMENTS.

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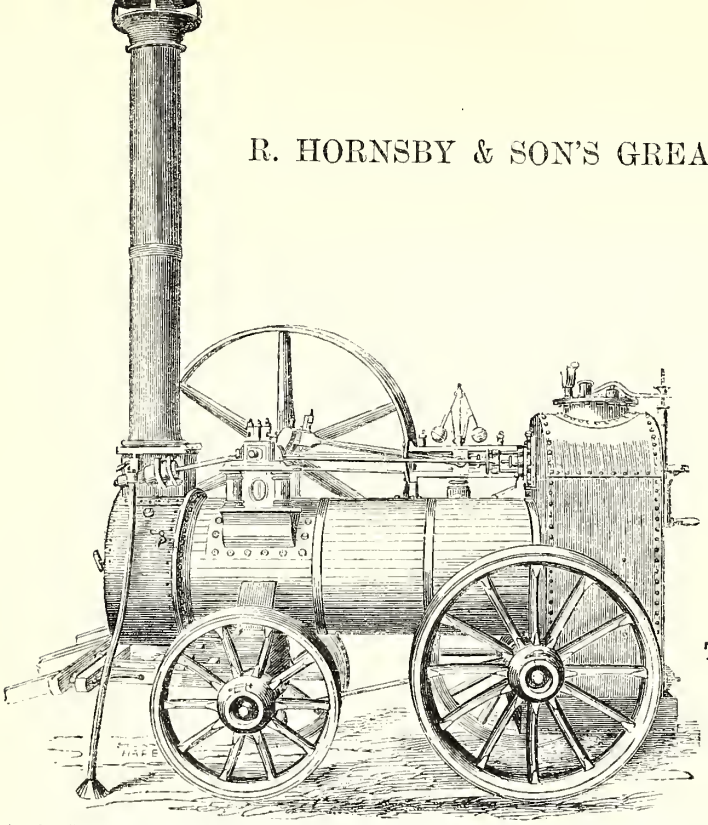
R. HORNSBY & SON'S GREAT EXHIBITION



PRIZE PORTABLE STEAM ENGINES.

The following PRIZES have been awarded to R. Hornsby & Son, for their Improved Patent Portable Steam Engines:

At the Great Exhibition of the Industry of all Nations, held at the Crystal Palace, Hyde Park, London, July, 1851, for the best Portable Steam Engine, for Agricultural purposes—The FIRST PRIZE or COUNCIL MEDAL.

	£.	s.	d.
By the Royal Agricultural Society of England, at Lincoln, July 1854	20	0	0
By the Bath and West of England Agricultural Society, at Bath, June 1854	10	0	0
By the Selby and Tadcaster Agricultural Society, at Selby, July 1854	20	0	0
By the Herts Agricultural Society, at Hertford, Oct. 1854	5	0	0
By the Great Yorkshire Agricultural Society, at York, August 1853	12	10	0
By the North Lincolnshire Agricultural Society, at Gainsborough, July 1853	20	0	0
By the Royal Agricultural Society of England, at Gloucester, July 1853	10	0	0
By the Bath and West of England Agricultural Society, at Plymouth, June 1853	15	0	0
By the Royal Agricultural Society of England, at Lewes, July 1852	40	0	0
By the North Lincolnshire Agricultural Society, at Horncastle, July 1852	7	0	0
By the Great Yorkshire Agricultural Society at Sheffield, August 1852	15	0	0
By the Royal North Lancashire Agricultural Society, held at Preston, August 1852	5	0	0
By the North Lincolnshire Agricultural Society, at Horncastle, July 1852	20	0	0
By the North Lincolnshire Agricultural Society, at Caistor, July 1851	20	0	0
By the Great Yorkshire Agricultural Society, at Bridlington, August 1851	15	0	0
By the Royal Agricultural Society of England, at Exeter, July 1850	50	0	0
By the Royal Agricultural Society, at York, July 1848	50	0	0
By the North Lincolnshire Agricultural Society, at Lincoln, July 1848	20	0	0

R. Hornsby & Son's Portable Steam Engines have been a leading manufacture with them since their introduction, this firm having been among the first in the market with an efficient engine; and their great experience and resources have enabled them so successfully to carry into effect the motto of the Royal Agricultural Society of England, "*Practice with Science*," that of late years their patent portable engines have stood unapproachable in their excellence. A glance at the preceding list of Prizes, and at the results of public trials which follow, will show their superior economy: and the Reports of Engineers, Agricultural Societies and Judges, and of the Press, bear ample testimony to their simplicity, soundness of principle, and strength of construction. Since these patent engines were brought out, they have carried off every Prize for which they have contended, with one exception, the result of an accident at Gloucester, which was the sole cause as was proved by their beating the same engine, to which the Prize was given, at the following meeting at Bath, June, 1854, when the best two engines having been taken to pieces under the direction of C. E. Amos, Esq. the Consulting Engineer of the Royal Agricultural Society, the Prize was awarded to R. Hornsby & Son's engine expressly on the grounds of its simplicity and readiness of access, soundness of construction and workmanship.

Tabular Statement of the amount of duty done by the best Engines at the Royal Agricultural Meeting, at Lincoln, July, 1854, 56 Engines having been entered for trial:—14 lbs. of coal per horse power being allowed to each Engine.

Maker's Name.	Nominal horse power.	Length of time running.	Coal burnt per horse power per hour.
		Hrs. Min.	lbs.
R. Hornsby & Son	8	3 44½	4·553
Ransomes & Sims	7	2 44½	5·103
Clayton, Shuttleworth & Co.	6	2 41½	5·201
Garrett & Son	6	2 29¼	5·622

Results of the Trials of the six-horse Portable Engines, exhibited at the Royal Agricultural Meeting, held at Lewes, July, 1852, when 37 Engines were entered for competition, and where the First Prize of 40l. for the best Portable Steam Engine, was awarded to R. Hornsby & Sons.

Maker's Name.	Nominal horse power.	Coal burnt per hour.	Coal burnt per horse power per hour.	Time in getting up steam.
		lbs.	lbs.	Min.
R. Hornsby & Son.	6	28· 0	4·666	50
Barrett, Exall, & Co.	6	32·68	5· 44	49
Clayton & Shuttleworth	6	36· 0	6· 0	60
Garrett & Son.	6	42·36	7· 10	32

R. HORNSBY & SON, SPITTLEGATE IRON WORKS.

Extract from the Report on the trial of Steam Engines, from the Journal of the Bath and West of England Agricultural Society:

"An inspection of the vital parts of the two best Engines was willingly agreed to by both makers, and without wishing to detract from the well-known merits of Messrs. Clayton and Shuttleworth (who gained the second prize), as among the first engineers in the country, on this occasion the prize was given (without hesitation) to Messrs. Hornsby on the following grounds:—

Greater steadiness of motion.
Simplicity of construction and better means of adjustment for wear.
Adoption of an improved mode of placing in the tubes.
Greater height in the steam-chest above the fire-box, giving less liability to prime.
Safety-valve less liable to set fast by corrosion.
Complete withdrawal of the piston and slides, with their rods, in a shorter time for examination or repair.

This decision was confirmed by the success of Messrs. Hornsby at the Meeting of the Royal Agricultural Society held about a month later at Lincoln, where their engine stood first, but in a still higher relative position to their competitors than at Bath.

"The governor had this engine under perfect control, and it worked with great steadiness. It was well arranged for examination. The cylinder is placed within the steam-chamber—an admirable arrangement for engines exposed to frost and weather—preventing condensation and maintaining the pressure during the whole stroke. With two workmen, the governor was detached, piston and slide-valve withdrawn, and the vital parts exposed for examination in 15 minutes. In one hour the whole was put together again and moved off for testing other machines.

"Every part repaid the trouble of examination; without a needless display of fine work, all was well finished, but subordinately to good construction, which appeared to have been considered in every part, especially in the axle-bearings, safety and check-valves, governor details both out of sight and in sight, and in a new mode of fitting in the boiler-tubes."

PATENT THRASHING MACHINES.

Prizes awarded by the Royal Agricultural Society of England, and by other Agricultural Societies, to R. Hornsby and Son, for their Patent Thrashing Machines.

	£.	s.	d.
By the Royal Agricultural Society of England, at Lincoln, July 1854, the first prize of	10	0	0
By the Selby and Tadcaster Agricultural Society, at Selby, July 1854, the first prize of	20	0	0
By the Herts Agricultural Society, at Hertford, October 1854, the first prize of	5	0	0
By the Northamptonshire Agricultural Society, at Oundle, September 1853, the first prize of	5	0	0
By the North Lincolnshire Agricultural Society, at Gainsborough, July 1853, the first prize of	5	0	0
By the North Lincolnshire Agricultural Society, at Horncastle, July 1852, first prizes amounting to	26	0	0
By the Great Yorkshire Agricultural Society, at Sheffield, August 1852, the first prize of	10	0	0

R. Hornsby and Son's Patent Portable Combined Thrashing, Shaking, and Dressing Machines

combine on a new and most efficient principle an excellent thrashing machine with shaker for shaking out the grain from the thrashed straw, an apparatus for dressing or winnowing the grain and delivering it into sacks, and in the case of barley, awning it; and likewise separating the chaff in a fit state for feeding; the whole mounted on wooden travelling wheels and readily conveyed from farm to farm. They are now so much simplified and improved as to defy competition; they are compact and much smaller and lighter than before, and take less power to drive them; they complete their work within themselves, thus saving manual labour, and their principle of construction is so excellent, that the wear and tear is reduced to the lowest point.

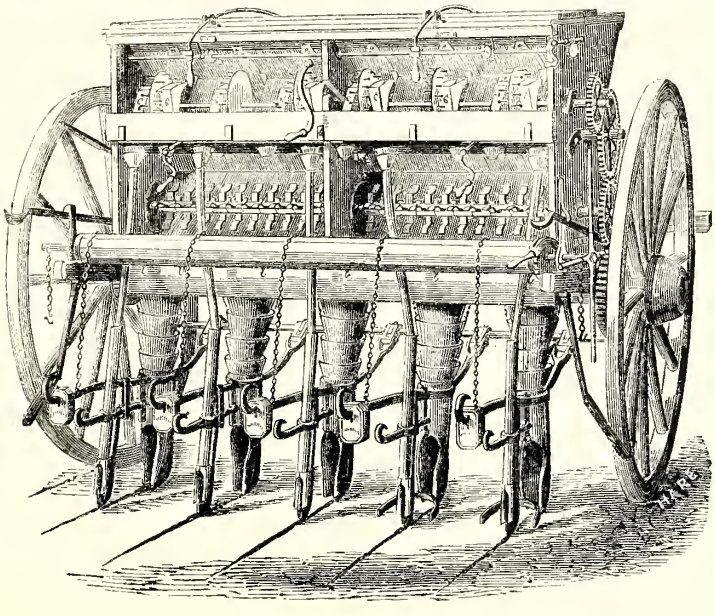
R. HORNSBY & SON'S PATENT DRILLS

of every description have long stood first in the market, and during the past year took every First Prize where they competed.

BY THE ROYAL AGRICULTURAL SOCIETY OF ENGLAND, AT LINCOLN, JULY, 1854,

For the best Drill for general purposes	£10	For the best Turnip Drill, on the flat, with manure	£5
For the best Corn and Seed Drill	10	For the best Turnip Drill, on the ridge, with manure	5

And 75 other First Prizes, amounting to 537*l.* 10*s.*, besides the Council Medal at the Great Exhibition, and numerous other Medals.



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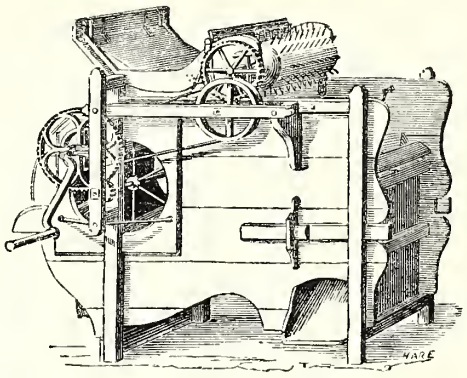
SPITTLEGATE IRON WORKS.

Besides the great advantage possessed by these Drills in being fitted with R. Hornsby & Son's Patent Vuleanized India Rubber Tubes in place of the very defeetive old mode of tin eups for eonducting the seed to the ground—they comprise every improvement suggested by modern seienee, and will be found very far superior to any others; especially in their regularity of aetion, simplieity of arrangement, and lasting charaeter. Full partieulars and deseription of the various kinds of Drill will be found in the general Catalogue, whieh will be furnished on application.



R. HORNSBY & SON'S

Great Exhibition Prize Patent Corn Dressing Machine.

This Machine has received the following Prizes :—

	£.	s.	d.
By the Royal Agricultural Society of England, at Lincoln, July **1854**, first prize of	5	0	0
By the Bath and West of England Agricultural Society, at Bath, June **1854**, the first prize of	5	0	0
By the Selby and Tadcaster Agricultural Society, at Selby, July **1854**, first prize of	2	10	0
By the Great Yorkshire Agricultural Society, at Ripon, August **1854**, first prize of	2	0	0
By the Herts Agricultural Society, at Hertford, October **1854**, the first prize of	2	0	0

And 21 *other First Prizes, amounting in all to* 111*l.* 10s. *; this excellent Machine having carried off every Prize for which it has competed at all the great English Meetings during nine years.*

The advantage this improved Dressing Maehine possesses over all others, is its being fitted with a spike roller working through a grating, so arranged as to form a hopper; it is eapable of separating the eorn from the ehaff in a rough pulsy state, as it comes from the thrashing machine without having been previously riddled; and is easily adjusted to suit eorn either in rough ehaff or any other state. It is also fitted with a double Shaking Sereen at bottom, which more effeetually eleans the corn from all kinds of small seeds than a fixed one. For the seeond time over the strap is taken off, whieh puts the roller out of aetion; and a board being plaeed in front of the grating, makes it an excellent maehine for finishing the corn for Market. One thousand six hundred of these Machines have been sent out within the last nine years.

PATENT CHAFF CUTTERS, CAKE BREAKERS, CLOD CRUSHERS, LAND PRESSERS, AND ALL KINDS OF FIRST CLASS AGRICULTURAL MACHINERY.

PRICED CATALOGUES

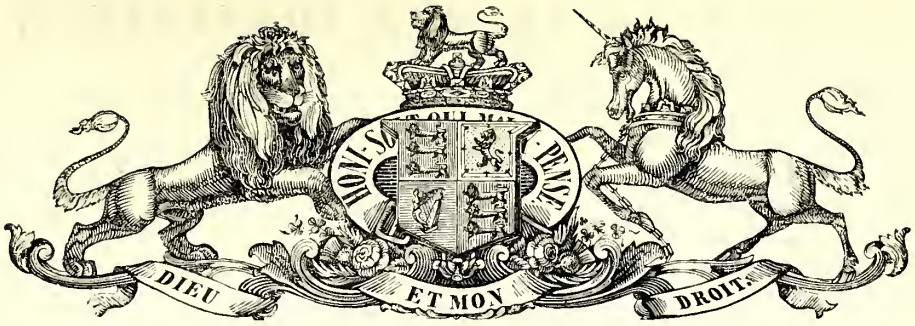
With full details may be had on applieation at

Stand No. 143, Agricultural Department in the Palace of the Universal Exhibition,

OR AT

SPITTLEGATE IRON WORKS,

GRANTHAM, LINCOLNSHIRE, ENGLAND.



SOUS LE PATRONAGE DE SON ALTESSE ROYALE LE PRINCE ALBERT,

DE LA REINE D'ESPAGNE,

DU GOUVERNEMENT FRANCAIS ET DU GOUVERNEMENT PRUSSIEN.

RICHARD HORNSBY ET FILS,

INGÉNIEURS,

FABRICANTS DE MACHINES ARATOIRES, &c., &c.,

à Spittlegate Iron Works,

GRANTHAM, LINCOLNSHIRE, ANGLETERRE,

Désirent attirer l'attention des Agriculteurs du Continent, de ceux qui exportent, et de tous autres, sur l'emplacement qu'ils occupent,

N° 143, 3me Classe, Agriculture,

Au Palais de l'Exposition Universelle, à Paris, en 1855.

On y trouvera des Modèles des Machines et Instruments qui depuis quelques années ont placé cette Maison de Commerce au premier rang des Ingénieurs spéciaux de l'Agriculture, ainsi qu'on peut en juger par la Liste des Prix contenue dans le Catalogue de leurs Instruments, comprenant—

MACHINES À VAPEUR FIXES ET PORTATIVES,

MACHINES À BATTRE LE GRAIN,

DE TOUTES ESPECES,

Comprennant leurs Machines Complexes et Portatives pour battre le Grain, le secouer et lui donner le dernier apprêt en une seule opération, le tout exécuté par la Vapeur ; et aussi

MACHINES COMPLETES, FIXES, MUES PAR LA VAPEUR OU L'EAU;

ET TOUTES SORTES DE

SEMOIRS, ET DE MACHINES POUR DONNER LE DERNIER APPRET,

MACHINES A SECOUER LA PAILLE, HACHE-PAILLE, BROYEURS DE TOURTEAUX, MOULINS A BROYER LES OS, ROULEAUX ET AUTRES INSTRUMENTS.

MACHINES À VAPEUR PORTATIVES,

Mises à la Grande Exposition par

R. HORNSBY ET FILS.

(PRIX.)

Les Prix suivants ont été accordés à R. Hornsby et Fils pour leurs Machines à Vapeur portatives perfectionnées,

A la Grande Exposition de l'Industrie de toutes les Nations, au Palais de Cristal, Hyde Park, à Londres, en Juillet 1851, pour la meilleure Machine à Vapeur portative pour les besoins de l'Agriculture :—

PREMIER PRIX, OU MEDAILLE DU CONSEIL.

	£.	s.	d.
Société Royale Agricole d'Angleterre, à Lincoln, Juillet 1854	20	0	0
Societe Agricole de Bath et de l'Ouest de l'Angleterre, à Bath, en Juin 1854 .	10	0	0
Société Agricole de Selby et Tadeaster, à Selby, Juillet 1854	20	0	0
Société Agricole de Herts, à Hertford, Octobre 1854	5	0	0
Grande Société Agricole du Yorkshire, à York, Août 1853	12	10	0
Société Agricole du Nord du Lincolnshire, à Gainsborough, Juillet 1853 . . .	20	0	0
Société Royale Agricole d'Angleterre, à Gloucester, Juillet 1853	10	0	0
Société Agricole de Bath et de l'Ouest de l'Angleterre, à Plymouth, Juin 1853 .	15	0	0
Société Royale Agricole d'Angleterre, à Lewes, en Juillet 1852	40	0	0
Société Agricole du Nord du Lincolnshire, à Horneastle, Juillet 1852 . . .	7	0	0
Grande Société Agricole du Yorkshire, à Sheffield, Août 1852	15	0	0
Société Royale Agricole du Nord du Lancashire, à Preston, Août 1852 . . .	5	0	0
Société Agricole du Nord du Lincolnshire, à Horneastle, Juillet 1852	20	0	0
Société Agricole du Nord du Lincolnshire, à Caistor, Juillet 1851	20	0	0
Grande Société Agricole du Yorkshire, à Bridlington, Août 1851	15	0	0
Société Royale Agricole d'Angleterre, à Exeter, en Juillet 1850	50	0	0
Société Royale Agricole, à York, Juillet 1848	50	0	0
Société Agricole du Nord du Lincolnshire, à Lincoln, Juillet 1848	20	0	0

Depuis l'introduction des Machines à Vapeur Portatives, R. Hornsby et Fils ont fait de leur fabrication une spécialité qui place leur maison au premier rang, car elle était déjà la première qui ait mis en vente une de ces machines qui fonctionnât parfaitement ; l'expérience et les ressources de MM. H. et Fils leur ont permis de remplir avec tant de succès les exigences de la devise de la Société Royale Agricole d'Angleterre, "*Pratique et Théorie*," que depuis bien des années leurs Machines à Vapeur Portatives ont acquis un degré d'excellence qui a laissé les autres bien loin en arrière. Un coup d'œil jeté sur la liste des Prix, et sur les expériences publiques dont le détail suit, prouvera leur supériorité d'agencement ; les Rapports des Ingénieurs, des Sociétés Agricoles, des Juges, et de la Presse, témoignent de leur simplicité, de l'excellence du principe de leur construction, et de leur solidité. Depuis l'époque où ces machines patentées furent produites, elles ont remporté tous les Prix pour lesquels elles étaient mises en concurrence ; il n'y a qu'une exception, à Gloucester, et cela à cause d'un accident, car la machine de R. Hornsby et Fils l'emporta sur celle qui avait vaincu la leur, et avait eu le Prix à la première Réunion Agricole à Bath en Juin 1854, lorsque les deux meilleures machines furent démontées sous la direction de C. E. Amos, Esq., l'Ingénieur Consultant de la Société Royale Agricole, et le Prix fut accordé à R. Hornsby et Fils, parcequ'elle leur Machine à Vapeur était simple, qu'on pouvait approcher de toutes ses parties, qu'elle était d'une construction solide et d'un fini achevé.

Tableau de la somme de travail faite par les meilleures machines à la réunion de la Société Agricole, à Lincoln, en Juillet 1854, 56 *machines concourant pour l'expérience :—*14 *liv. de charbon étant données à chaque machine pour la force de chaque cheval.*

Noms des Fabricants.	Force nominale des chevaux.	Temps que dura la course.	Charbon brûlé en une heure pour la force de chaque cheval.
		Hrs. Min.	liv.
R. Hornsby et Fils . .	8	3 44½	4·553
Ransomes et Sims . . .	7	2 44½	5·103
Clayton, Shuttleworth et Cie	6	2 41½	5·201
Garrett et Fils . . .	6	2 29¼	5·622

Résultat des expériences des machines portatives de la force de six chevaux, faites à la réunion de la Société Royale Agricole, à Lewes, en Juillet 1852, *où* 37 *machines concouraient, et où le Premier Prix de* 40*l. fut accordé à R. Hornsby et Fils pour la meilleure Machine à Vapeur Portative.*

Noms des Fabricants.	Force nominale des chevaux.	Charbon brûlé par heure.	Charbon brûlé à l'heure pour la force de chaque cheval.	Temps requis pour faire monter la vapeur.
		liv.	liv.	Min.
R. Hornsby et Fils .	6	28· 0	4·666	50
Barrett, Exall et Cie .	6	32·68	5· 44	49
Clayton et Shuttleworth	6	36· 0	6· 0	60
Garrett et Fils . .	6	42·36	7· 10	32

R. HORNSBY ET FILS, SPITTLEGATE IRON WORKS.

Extrait du Rapport des Expériences des Machines à Vapeur, tiré du Journal de la Société Agricole de Bath et de l'Ouest de l'Angleterre :—

" Les deux fabricants convinrent que les deux meilleures machines seraient soumises à un examen dans leurs parties les plus importantes, et sans vouloir porter atteinte au mérite reconnu de MM. Clayton et Shuttleworth (qui ont remporté le second Prix), qui comptent parmi les meilleurs ingénieurs du pays, le Prix, dans cette circonstance, a été donné sans hésitation à MM. Hornsby pour les raisons suivantes :—

Plus de régularité dans le mouvement.
Simplicité de construction, et moyens d'ajustement qui résisteront mieux à l'usage.
L'adoption d'un mode perfectionné de placer les tuyaux.
Plus de hauteur dans la boîte à la vapeur au-dessus de la cheminée, ce qui fait que l'eau est moins sujette à entrer avec la vapeur dans la boîte à la vapeur.
Soupape de sûreté moins susceptible de se fermer hermétiquement par corrosion.
Enlèvement plus rapide du piston et des coulisses, avec leurs tiges, ce qui permet de les examiner et de les réparer dans un plus court délai.

Cette décision fut confirmée par le succès de MM. Hornsby à la réunion de la Société Royale Agricole, un mois après à Lincoln, où leur machine l'emporta sur toutes les autres et à un degré plus éminent que lors de la réunion à Bath.

" Le régulateur avait cette machine complètement soumise à sa direction, et elle fonctionna avec une grande régularité. Elle était parfaitement disposée pour qu'on l'examinât. Le cylindre est placé en dedans de la chambre à la vapeur, admirable arrangement pour des machines exposées à la gelée et au mauvais temps ; il prévient la condensation, et maintient la pression pendante la durée du coup. Avec le secours de deux ouvriers, le régulateur fut enlevé, le piston et la soupape à coulisse retirés, et en 15 minutes les parties essentielles furent exposées à l'examen. En une heure tout fut remonté et la machine se retira pour faire place à d'autres qu'on devint mettre à l'épreuve.

" Chaque partie valait la peine qu'on l'examinât ; sans faire parade d'un fini de travail inutile, tout était bien confectionné, mais subordonné aux principes d'une bonne construction, ce qui se remarquait en tous points, surtout dans les supports de l'axe, les soupapes de sûreté et d'arrêt, les détails du régulateur soit cachés, soit en vue, et un nouveau mode d'appliquer les tuyaux de la chaudière."

MACHINES À BATTRE LE GRAIN.

Elles sont Patentées ; et la Société Royale Agricole d'Angleterre ainsi que d'autres Sociétés Agricoles, ont accordé des Prix aux Fabricants, R. Hornsby et Fils :—

Société Royale Agricole d'Angleterre, à Lincoln, en Juillet 1854, le Premier Prix de .	£10	0	0
Société Agricole de Selby et Tadcaster, à Selby, Juillet 1854, le Premier Prix . .	20	0	0
Société Agricole de Herts, à Hertford, Octobre 1854, Premier Prix	5	0	0
Société Agricole du Northamptonshire, à Oundle, Septembre 1853, Premier Prix . .	5	0	0
Société Agricole du Nord du Lincolnshire, à Gainsborough, Juillet 1853, Premier Prix	5	0	0
La même Société, à Horncastle, Juillet 1852, Premiers Prix s'élevant à	26	0	0
La Grande Société Agricole du Yorkshire, à Sheffield, Août 1852, Premier Prix . .	10	0	0

Les Machines Complexes, Portatives et Patentées, de R. Hornsby et Fils, servant à battre le grain, le secouer et lui donner le dernier appret.

Elles réunissent d'après un principe nouveau une excellente machine à battre le grain avec un appareil pour secouer le grain de la paille battue, un autre pour vanner le grain et le verser dans des sacs, et si c'est de l'orge pour l'ébarber et de la même façon séparent la balle en un état qui la rend propre à la nourriture. Le tout est monté sur des roues adhérentes en bois et peut être facilement transporté d'une ferme à une autre. Elles sont tellement simplifiées et améliorées qu'elles rendent toute concurrence impossible ; elles sont compactes, plus petites et plus légères qu'auparavant, et demande moins de vapeur pour fonctionner ; tout le travail se fait à l'intérieur, évitant ainsi du travail manuel, et leur principe de construction est tellement supérieur que les frais d'entretien se réduisent à une dépense très-minime.

SEMOIRS PATENTÉS DE R. HORNSBY ET FILS.

Il y en a de toutes sortes, et ils ont depuis longtemps une supériorité marquée sur tous les autres, et l'année dernière ont remporté tous les Premiers Prix partout où ils ont concouru.

De la Société Royale Agricole d'Angleterre, à Lincoln, en Juillet 1854 :

Pour le meilleur Semoir à toutes fins	£10	0	0
Pour le meilleur Semoir pour le Blé et les Semences	10	0	0
Pour le meilleur Semoir pour la Graine de navet sur des terrains plats, avec engrais .	5	0	0
Pour le meilleur Semoir pour la Graine de navet sur des billons, avec engrais . . .	5	0	0

Et 75 autres Premiers Prix s'élévant à £53. 10*s*., outre la Médaille du Conseil de la Grande Exposition, et beaucoup d'autres Médailles.

Outre le grand avantage que possèdent ces Semoirs pour être garnis des tubes en gomme Vulcanisée et Patentée de R. Hornsby et Fils, au lieu de l'ancienne et défectueuse méthode d'employer des godets d'étain pour conduire le grain à terre, ils comprennent tous les perfectionnements suggérés par la science moderne, et on les trouvera bien supérieurs à tous autres, surtout à cause de la régularité de leur action, la simplicité de leur arrangement et leur durée. Le Catalogue général, qu'on peut obtenir en le demandant, donne des détails et une description complète des diverses espèces de Semoirs.

Machine Patentée pour donner le dernier apprêt au Grain,

Inventée par

R. HORNSBY ET FILS.

(Prix de la Grande Exposition.)

Cette Machine a valu aux Inventeurs les Prix suivans :—

	£.	s.	d.
Société Royale Agricole d'Angleterre, à Lincoln, Juillet 1854, Premier Prix	5	0	0
Société Agricole de Bath et de l'Ouest de l'Angleterre, Bath, Juin 1854, Premier Prix . .	5	0	0
Société Agricole de Selby et Tadcaster, à Selby, Juillet 1854, Premier Prix	2	10	0
Grande Société Agricole du Yorkshire, à Ripon, Août 1854, Premier Prix	2	0	0
Société Agricole de Herts, à Hertford, Octobre 1854, Premier Prix	2	0	0

Et 21 *autres Premiers Prix, montant à* 111*l.* 10*s.*; *cette Machine excellente ayant remporté tous les Prix pour lesquels elle avait concouru à toutes les grandes Réunions Agricoles depuis neuf ans.*

L'avantage que possède cette Machine Perfectionnée pour donner le dernier apprêt, sur les autres machines analogues, consiste en un rouleau à pointes fonctionnant à travers une grille arrangée de manière à former une trémie; elle peut séparer le grain de la paille et le présenter dans un état encore grossier lorsqu'il sort de la machine à le battre sans qu'il ait été criblé d'avance; elle s'ajuste aisément, de manière à préparer le blé dans son état primitif ou dans tout autre état. Elle possède aussi au fond un double crible pour secouer, ce qui dégage mieux le grain de toute espèce de petites graines qu'un crible fixé. A la seconde opération la courroie est enlevée, ce qui suspend l'action du rouleau ; et une planche étant placée devant la grille, fait de la machine un excellent appareil pour donner au grain le dernier apprêt et le rende propre à être mis en vente. Seize cents de ces machines ont été expédiées dans le courant des neuf dernières années.

HACHE-PAILLE PATENTÉ, MACHINES À BROYER LES TOURTEAUX, MACHINES À ECRASER LES MOTTES, MACHINES À CONSOLIDER LE TERRAIN,

ET TOUTES SORTES D'INSTRUMENTS ARATOIRES, DE PREMIÈRE QUALITÉ.

On distribue des Catalogues avec les Prix Marqués et des Renseignements complets à l'Emplacement

No. 143, SECTION DE L'AGRICULTURE,

AU PALAIS DE L'EXPOSITION UNIVERSELLE,

ET À

SPITTLEGATE IRON WORKS, GRANTHAM,

LINCOLNSHIRE, ANGLETERRE.

CLAYTON, SHUTTLEWORTH, & CO.,

GENERAL ENGINEERS, IRON AND BRASS FOUNDERS,

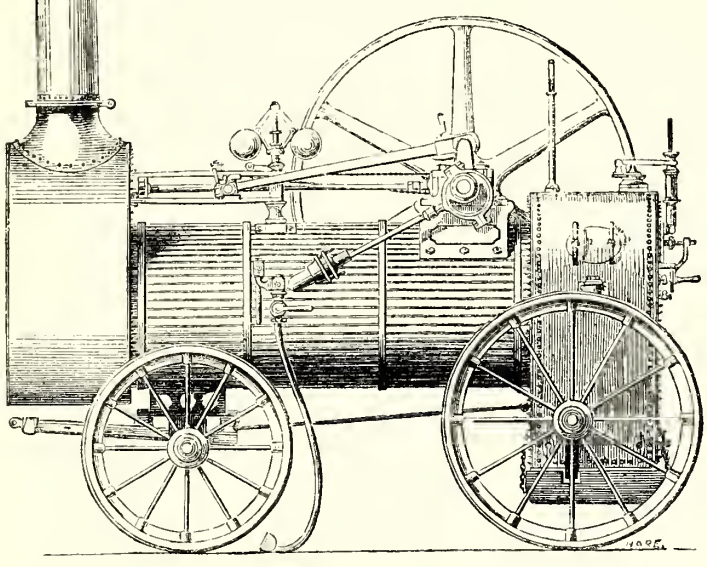
Stamp End Works, Lincoln,

AND

No. 6, FITZROY TERRACE, NEW ROAD, LONDON.

C., S., & Co. beg to call the attention of Agriculturists, Contractors, and Builders to their PORTABLE STEAM ENGINES, which, for simplicity, durability, and easiness of removal, cannot be excelled. The general arrangements of these Engines are such as to admit of the vital parts being readily got at when required—a very important point when they have to be worked by inexperienced men, a circumstance frequently unavoidable in Engines used for agricultural purposes. C., S., & Co., could produce testimonials in great numbers from most parts of the world, but think the best testimonials they can offer is the fact of their having already manufactured upwards of Twelve Hundred Portable Engines, Three Hundred and Seventy of which were manufactured and sold during the last 12 months.

The engraving represents one of C., S., & Co.'s Patent Portable Steam Engines, which consists in a new method of heating the Exterior surfaces of the Cylinder and Slide Box, thereby effecting a saving of fuel. The Cylinder is placed in a jacket, the space between the two being filled with steam, while the outer surface of the jacket, by being placed in the smoke-box, is surrounded by heat of 400 degrees and upwards, thereby preventing any loss by radiation, which cannot be the case when the Cylinder is placed in the steam chamber of the boiler, inasmuch as the boiler must be increased in its external dimensions to receive the Cylinder, thereby increasing its radiating surface.



These Engines have taken First Prizes at the Royal and most other Agricultural Societies throughout England.

Price of Patent Engine.

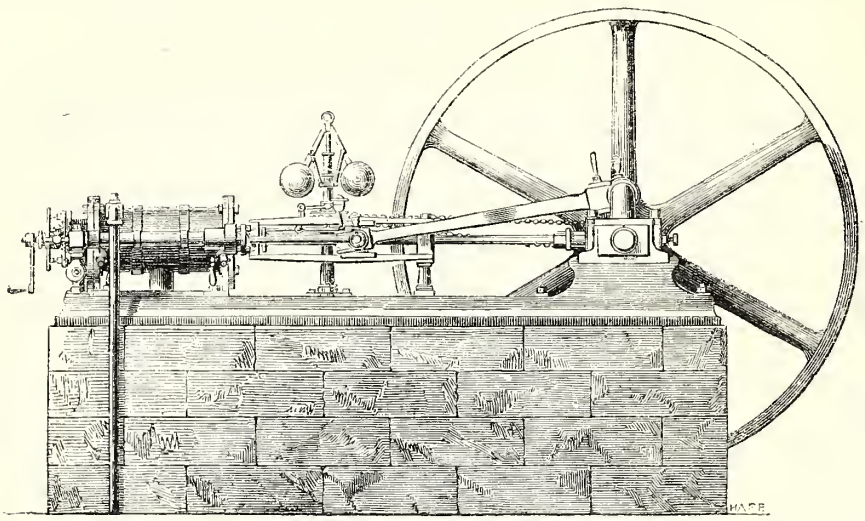
		£.	s.	d.
4	Horse Power	180	0	0
5	,, ...	200	0	0
6	,, ...	220	0	0
7	,, ...	235	0	0
8	,, ...	255	0	0
10	,, ...	295	0	0
14	,, ...	420	0	0

Price of Outside Cylinder Engine.

		£.	s.	d.
4	Horse Power	175	0	0
5	,, ...	190	0	0
6	,, ...	210	0	0
7	,, ...	230	0	0
8	,, ...	250	0	0
10	,, ...	285	0	0

CLAYTON, SHUTTLEWORTH, & CO.'S

IMPROVED HORIZONTAL CYLINDER PRIZE FIXED STEAM ENGINE.



The above Engraving represents a Six Horse Power Horizontal Cylinder Steam Engine, erected complete upon metal foundation plate, which arrangement renders it easy of removal—an important point to a Tenant Farmer. The principle of this Engine is direct action, which simplifies the whole arrangement, inasmuch as the working parts are fewer in number, more compact, and less likely to get out of repair. Being secured upon one bed plate renders it unnecessary to have any bearings or fastenings in the partition or adjoining walls of the building in which it is enclosed.

It is supplied with a Cylindrical Cornish Boiler of ample size and strength, the whole being made of the very best material, fitted and finished in a style equal to any house in the trade.

The annexed prices include all complete to the end of the fly-wheel shaft, (exclusive of carriage, masonry, and brickwork,) but inclusive of fixing. The men to be provided with bed and board during the time of erecting the Engine.

This Engine had the First Prize awarded to it at the Royal Agricultural Society's Meeting held at Gloucester.

PRICES.

Four Horse Power Single Cylinder	£ 130
Six Horse Power Single Cylinder	175
Eight Horse Power Single Cylinder	210
Ten Horse Power Double Cylinder	260
Twelve Horse Power Double Cylinder	310
Fourteen Horse Power Double Cylinder	360

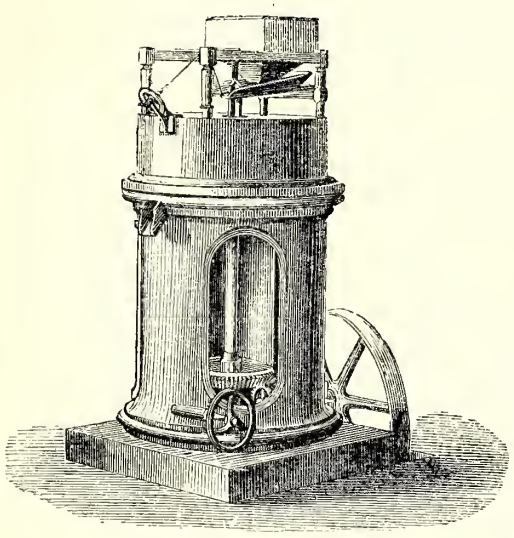
The foregoing Engines and Boilers are made of the very best materials, and by the most skilful workmen, and are equal in finish to a locomotive. They are fitted with improved governors, which act with such precision as to have entire control of the engine, regulating its speed to the greatest nicety under all changes or irregularities of the work. The boilers of Portable Engines are covered with hair felt, over which is placed a neat wood casing, giving a handsome finish to the whole, and preventing radiation of heat, thereby effecting a great saving of fuel, especially in cold weather.

The prices given with each engine include every requisite, not a single item of extras being charged. The requisites comprise patent waterproof cover for engine, tube-cleaner, fire-pricker, rake, screw-keys, and screw-hammer, oil tin, and spare gauge glass.

CLAYTON, SHUTTLEWORTH, & CO.'S

REGISTERED PRIZE

PORTABLE GRINDING MILL.



Price delivered at Lincoln:

WITH CAST METAL CYLINDRICAL FRAME AS ABOVE.

Fitted with 2 ft. 8 in. Derbyshire Grey Stones . . .	**£ 48**
" " French Bed Stone, Grey Runner	**50**
" " French Stones	**55**

It has long been admitted by all practical Agriculturists that by no other method the same amount and quality of work can be done in crushing or kibbling agricultural produce as by a pair of mill-stones; knowing this to be the case, and observing no parties had yet brought out anything at all suitable for such purposes, C., S., & Co. determined to turn their attention to the subject, and have now produced a Machine which they can with confidence recommend. With respect to its performance and general adaptation to Agricultural purposes, when brought into competition with *thirty-two* other mills exhibited and tested at the Royal Agricultural Meeting, held at Norwich, in 1849, the Judges in their Report make the following observations:—

"The Portable Mills for grinding fine meal did "not possess much merit, with the exception of "Messrs. Clayton and Shuttleworth's, to which we "awarded the prize. It both kibbled and ground "in superior style to any of the others, grinding "barley perfectly well at the rate of six bushels per "hour without much heating the meal. It was "upon the same principle as fixed mill-stones usually "are, as well got up in point of workmanship, and "took little room, so that we consider it a valuable "implement."

This Mill, when again brought into competition with various other Mills, manufactured by first-rate millwrights from all parts of England, had at the Royal Agricultural Show, held at Exeter, July, 1850, the first prize of 10*l.* awarded; at the Royal Agricultural Show, held at Gloucester, July, 1853, the first prize of 10*l.* awarded; at the Royal Agricultural Show, held at Lincoln, July, 1854, the first prize of 5*l.* awarded; and at the Great Yorkshire Agricultural Show, held at Ripon, 1854, the Gold Medal.

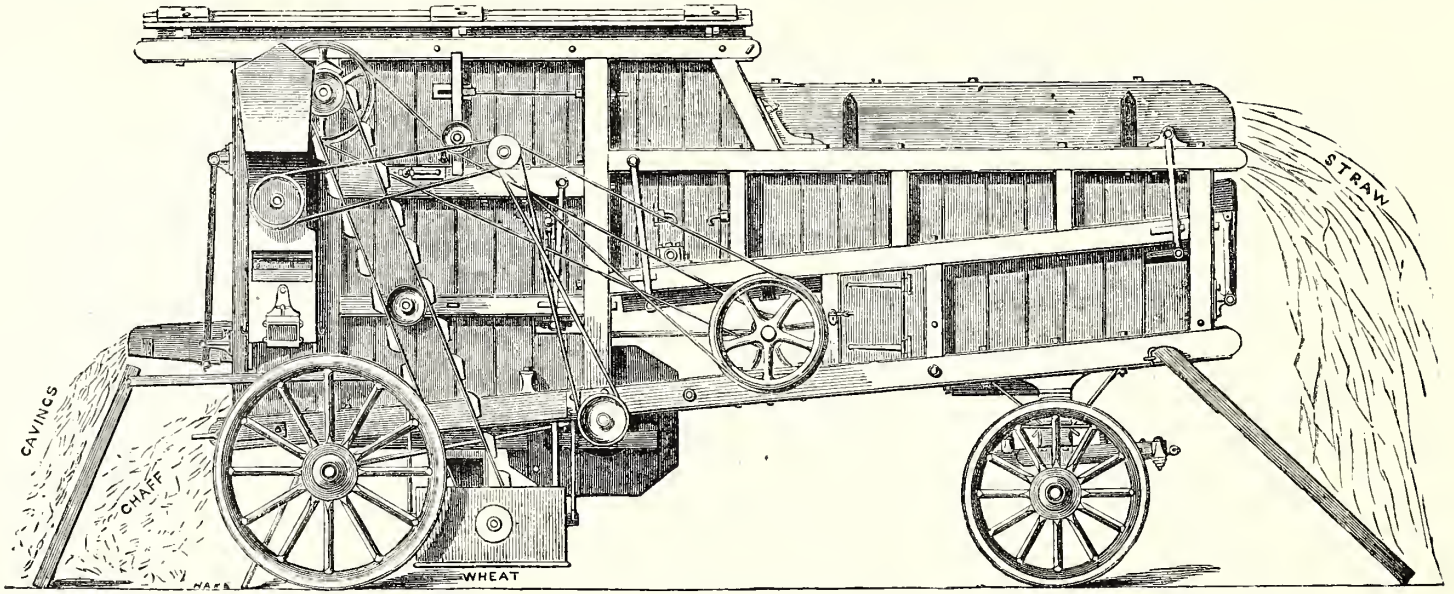
The Stones are 2 ft. 8 in. diameter, fixed in a metal cylindrical frame 3 ft. 6 in. in diameter, and 4 ft. 7 in. high, from floor to top of bedstone. The top or runner stone is carried round by the upright spindle which receives its motion from the pair of bevelled wheels at the bottom, one of which is geared with wood to prevent noise; the pully shown on the outside is for running the strap, which may be taken direct from the engine driving-wheel; the small hand-wheel at the bottom in front is for adjusting the stones to their faces, by which means, and at a moment's notice, they may be made to grind to the finest flour, wheat, or barley, or so adjusted as only to bruise or kibble beans, peas, and oats. The quantity of work done in a given time will vary according to the required fineness of the flour; with Derbyshire grey-stones, six bushels of barley per hour may be ground to fine meal; if only required to be kibbled or partially broken, a much greater quantity may be done. If wheat is intended to be ground, French burr-stones are indispensable, and in most cases are best suited for agricultural purposes, being much harder, consequently do not require dressing or sharpening so often as Derbyshire grey-stones.

CLAYTON, SHUTTLEWORTH, & CO.'S

PATENT PRIZE COMBINED

BOULTING, THRASHING, STRAW SHAKING, RIDDLING, AND WINNOWING MACHINE.

During the last three years this Machine has taken the two first Prizes at the Royal Agricultural Society's Meetings, as well as numerous other Prizes at minor Exhibitions.



These Machines are 4 ft. 6 in. wide, and are adapted for both Boulting and Thrashing (a plan C., S., & Co. much recommend).

Price, fitted with Barley Horner, Elevators, Patent Drum Beater, and Wood Travelling Wheels . . . . . £ 103

If with Double Blower and two sets of Elevators 113

The advantages the above Machine possesses over the old Thrashing and Straw Shaking Machines are great and numerous; and the increasing demand C., S., and Co. have for them in all parts of England and the Continent, clearly proves that Farmers and others interested in Agricultural operations are fully alive to the great saving of labour effected by their use. The quantity of refuse (especially when the straw is tender) which is unavoidably mixed up with the corn during the operation of thrashing, rendered it extremely desirable that some invention should be brought out which would obviate the evil, and thereby considerably reduce the cost of labour in thrashing corn for market. C., S., and Co. having, during the last four years, paid great attention to the subject, and spared no expense in manufacturing experimental machines, in order that they might arrive at correct conclusions as to the best mode of accomplishing this very desirable object, have great pleasure in informing their friends and the public that they have succeeded in the manufacture of a Portable Machine, entire upon one frame, and carried by four wheels, which will not only thrash the corn, but also so far finish it as to require, in most cases, but once passing through the ordinary Dressing Machine to render it fit for market, thereby effecting a saving in manual labour of full 50 per cent. over the old mode of thrashing.

C., S., & Co.'s new Machines make four complete separations, viz., the Corn, Straw, Chaff, and Pulse or Carvings, delivering each in the place assigned for them. The Chaff is, of course, valuable for feeding purposes, especially Barley Chaff, which is considered by some eminent Agriculturists, when perfectly separated from extraneous matters, to be equal in value to the sum generally paid for the hire of the Machine.

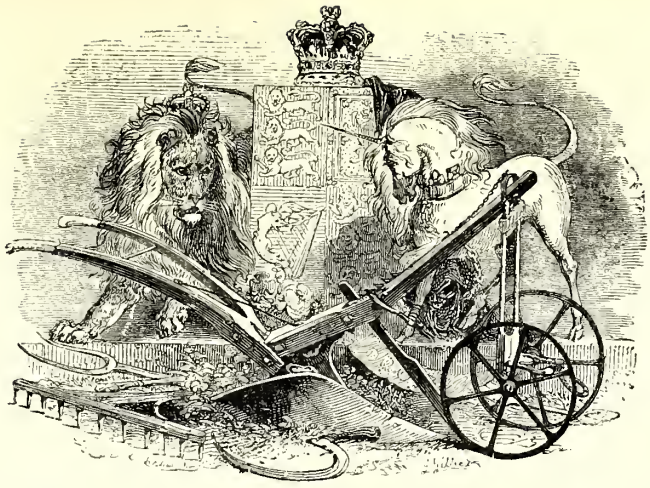
These Machines are fitted with *barley horner* and *elevators*, which deliver the grain into sacks.

C., S., & Co. have, since their introduction of fixed barn works for farm purposes, taken every Prize offered for that class of Machinery, viz., at Lewes, in 1852, a Silver Medal and 10*l.*; at Gloucester, 1853, a Silver Medal and 20*l.*; at Lincoln, 1854, 20*l.*; and at the Great Yorkshire Agricultural Society's Meeting, held at Ripon, 1854, the Prize of 50*l.* C., S., and Co. furnish plans and specifications for carrying out the work, and an estimate of total cost, including fixing and putting into operation.

MANUFACTORY

AT

IPSWICH.



LONDON AGENT:

Sheppard Ransome,

31, ESSEX STREET,

STRAND.

RANSOMES & SIMS,

IPSWICH, SUFFOLK, ENGLAND,

MANUFACTURERS OF

PLOUGHS, STEAM ENGINES, THRASHING MACHINES,

AND OTHER

AGRICULTURAL IMPLEMENTS AND MACHINERY.

The attention of Agriculturists and others is especially directed to the Selection of their Implements and Machines Exhibited at the

PARIS UNIVERSAL EXHIBITION OF 1855.

EXHIBITORS' ROTATION No. **147.**

RECENT PRIZES AWARDED BY

THE ROYAL AGRICULTURAL SOCIETY OF ENGLAND

TO RANSOMES & SIMS

AT THEIR

LEWES MEETING, 1852.

Best Plough for General Purposes . 1*st Prize.*
Best One-way or Turn-wrest Plough. 1*st Prize.*
Fixed Steam Engine, 7-horse power. 2*nd Prize.*
Best Grinding Mill, for Breaking Agricultural Produce into Fine Meal. *Prize.*
Best Cultivator, Grubber, or Scarifier. *Prize.*
Patent Double Mill . . . . . *Silver Medal.*
Patent Trussed Whippletrees . *Commended.*
Portable Steam Engine . . . . *Commended.*

AT THEIR

GLOUCESTER MEETING, 1853.

Best Turn-wrest Plough . . . . £7.
Best Cultivator, Grubber, and Scarifier . . . . . £10.
Best 2-Horse Thrashing Machine £10.
Best 4-Horse Ditto . . . . . £15.
Biddell's Patent Bean Cutter . . *Silver Medal.*
Six-Horse Engine, Portable, *Highly Commended*
Six-Horse Ditto, Ditto, No. 2 . . *Commended.*
Eight-Horse Fixed Ditto . . . *Commended.*

AND AT THEIR

LINCOLN MEETING, 1854.

Fixed Steam Engine . . . . . 1*st Prize.*
Portable Ditto . . . . . 2*nd Prize.*
Best Plough for General Purposes 1*st Prize.*
Davy's Patent Flax Machinery . *Silver Medal.*
Heavy Land Plough . . *Highly Commended.*
Improved Drag Rake . . *Highly Commended.*
New Patent Chaff Cutter *Highly Commended.*
Bruce's Patent Stable Fittings . . . . . *Highly Commended.*

RECENT PRIZES AWARDED BY

THE ROYAL AGRICULTURAL IMPROVEMENT SOCIETY OF IRELAND

TO RANSOMES & SIMS

AT THEIR

KILLARNEY MEETING IN 1853.

Two-Horse Portable Thrashing Machine . . . . . 1*st Class Medal.*
Horse-Power Gearing . . . . . 1*st Class Medal.*
Subsoil Plough . . . . . 2*nd Class Medal.*
Biddell's Patent Bean Cutter . . . . . 2*nd Class Medal.*
Patent Trussed Whippletrees . . . . . 1*st Class Medal.*

AT THE

DUBLIN SPRING CATTLE SHOW IN 1854.

General Assortment of Implements . . . . . *Silver Medal.*

AT THE

ARMAGH MEETING, AUGUST, 1854.

Steam Thrashing Machine . . . . . Council Gold Medal.
Best Plough . . . . . 1*st Class Medal.*
Best Seed Harrows . . . . . 1*st Class Medal.*
Best Crushing Mill . . . . . 1*st Class Medal.*
Best Two-Horse Portable Thrashing Machine . . . 1*st Class Medal.*
Best Portable Steam Engine . . . . . 1*st Class Medal.*
Best Set Horse-power Gear . . . . . 1*st Class Medal.*
Best Set of Whippletrees . . . . . 2*nd Class Medal.*
Double-action Turnip Cutter . . . . . *Commended.*
Double-action Hay Maker . . . . . *Commended.*
Horse Drag Rake . . . . . *Commended.*
Patent Cam Chaff Cutter . . . . . *Commended.*
Bruce's Stable Manger . . . . . *Commended.*

Also, at the Great Yorkshire Meeting, recently held at Ripon

THE PRIZE FOR THE BEST SELECTION OF PLOUGHS.

RANSOMES & SIMS, IPSWICH,

AGRICULTURAL ENGINEERS, AND GENERAL IRONFOUNDERS.

THE FOLLOWING IS A LIST OF SUCH

AGRICULTURAL IMPLEMENTS AND MACHINES

AS ARE EXHIBITED BY

RANSOMES & SIMS,

OF

IPSWICH, ENGLAND,

AT THE

PARIS UNIVERSAL EXHIBITION.

R. & S. are extensively engaged in the Manufacture of

PATENT AND OTHER PLOUGHS,

ADAPTED FOR EVERY DESCRIPTION OF SOIL.

SCARIFIERS OF VARIOUS DESCRIPTIONS,

HARROWS, GRUBBERS, CULTIVATORS, HORSE HOES, FIELD ROLLERS, CLOD CRUSHERS, HAY MAKING MACHINES, REAPERS, HORSE RAKES, CORN RICK STANDS.

PORTABLE AND FIXED STEAM ENGINES.

TWO, THREE, AND FOUR HORSE PORTABLE THRASHING MACHINES.

Portable Steam Thrashing Machines,

WINNOWING MACHINES, BARLEY AWNERS, CHAFF CUTTERS,

FOR HAND, HORSE, OR STEAM POWER, ADAPTED TO EVERY VARIETY OF CIRCUMSTANCE.

Turnip Cutters, and Root Graters, Grinding Mills, Bruising Mills,
Portable Flour Mills, and Dressing Machines.

OILCAKE BREAKERS, HORSE POWERS, CIRCULAR SAW TABLES,

SCOTCH AND OTHER ONE-HORSE CARTS,

HAY PRESSES, BRICK MAC HINES, GRASS CUTTERS, &c.

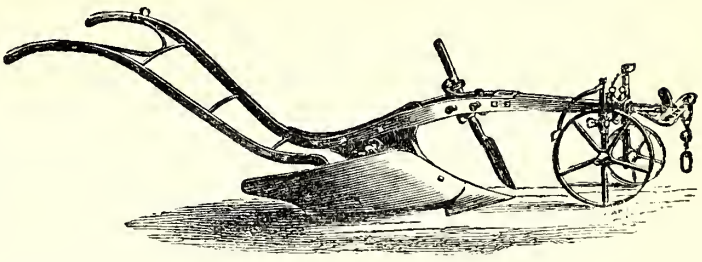
R. & S. carefully prepare Plans and Estimates for Barn Machinery.

Railway Chairs and Treenails, Water Cranes, Turntables, Switches, and Crossings, and other Iron Work.

PATENT TRUSSED BEAM TWO-HORSE IRON PLOUGH,

MARKED Y. L.

Awarded the Prize of £10 and Silver Medal, as the Best Heavy Land Plough. A Prize of £10 and Silver Medal as the Best Light Land Plough, at the Royal Agricultural Society's Meeting at Southampton. Also a Prize of £10 at the Royal Agricultural Society's Meeting at Northampton, and the Council Medal of the Great Exhibition with this Plough as made by Busby, under license.



For general purposes this Plough obtains the preference over most, if not all, others; and, by changing the mould board only—as was the case at the great trial at Southampton in 1844—it will answer equally well for heavy as for light land: and, upon the occasion referred to, it obtained the double Prize of the Royal Agricultural Society, "*As the Best Plough both for Heavy and Light Land.*" (Vide pages 19 and 20.) The construction of this Plough is very simple, and its draught light. In its original form, it was first introduced by Richard Westbrook Baker, Esq. into Rutland, and obtained general use there. Prizes were won with it in many successive years at the Cottesmore Meetings of the above county, and subsequently, from various trials and experiments, it was brought to its present approved form, and is now known as the Improved Rutland Plough, marked Y. L. The share is fixed to a patent lever neck, which is an effective arrangement for giving it more or less "pitch," or in directing the point more or less to land.

The coulter fittings are on a simple plan, affording facilities for quickly placing the coulter in any required position.

There are upwards of twenty varieties of mould boards to this Plough, adapted for every description of soil; and it is desirable, in giving orders for this and similar Ploughs, to state whether required for heavy or light land, and if fitted with one or two wheels, or as a Swing Plough.

PRICE:

	£.	s.	d.
As a Swing Plough	3	14	0
Do. with One Wheel	4	0	0
Do. with Two Wheels	4	10	0
Fitted with Skim Coulter, extra	0	4	0
Do. with Steel Breast, extra	0	12	0

PATENT TRUSSED BEAM TWO-HORSE IRON PLOUGH,

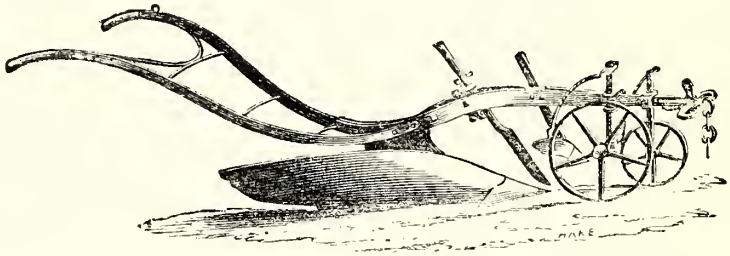
MARKED Y. R. C.

Awarded the Prize at the Meeting of the Royal Agricultural Society at Lewes, 1852; and again at a Meeting of the same Society at Lincoln, 1854, as

THE BEST PLOUGH

FOR

GENERAL PURPOSES.



In its general formation this Plough is similar to the well-known Y. L. Plough previously described, but without the contrivance for altering the dip of the share. The mould board has been constructed with every attention to correctness of form and adaptation to variations of soil; and its superiority was fully proved at the Meeting of the Royal Agricultural Society at Lewes, in 1852, and at Lincoln 1854, where this Plough successfully competed for the Prize offered for "*The Best Plough for General Purposes.*"

As tested by the Dynamometer it is found to be exceedingly light of draught, while the steadiness with which it works, and its simplicity of construction, commend it to the practical agriculturist.

PRICE:

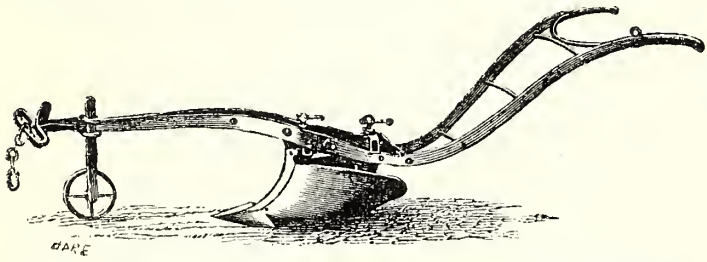
	£.	s.	d.
As a Swing Plough	3	14	0
Fitted with One Wheel	4	0	0
Do. with Two Wheels	4	10	0
Do. with Skim Coulter, extra	0	5	0
Do. with Steel Breast, extra	0	12	0

PATENT TRUSSED BEAM IRON UNIVERSAL RIDGE PLOUGH,

MARKED Y. U. L.

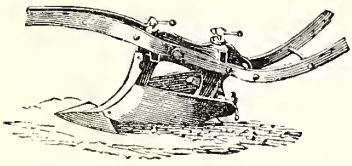
Silver Medal of the Royal Agricultural Society at Norwich, 1849.

This Plough was constructed under the direction of John Clarke, Long Sutton Marsh, for which he was awarded the Silver Medal of the Royal Agricultural Society of England, and the Prize at the R. A. S. Meeting at Norwich, in 1849.

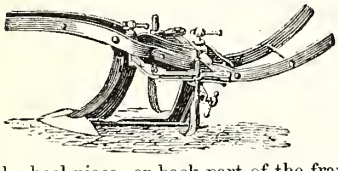


It is adapted to the several purposes of ridge culture, and, by an easy transition of shape, which is accomplished in a simple manner, it becomes,

FIRST. **A DOUBLE TOM, OR RIDGE PLOUGH,** as annexed. It is used with one of the smaller shares, 12 or 15 in. wide, and in this character will open and close the land in ridge work, at any distances, where the manure is deposited: it also serves the purpose of setting out lands for common ploughing, or opening surface drains.



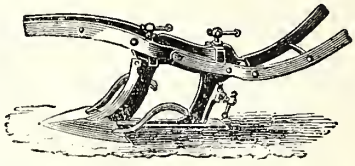
SECOND.— **A MOULDING PLOUGH,** to be used in moulding up root-crops, peas, or beans. The cut shows the form of mould boards, &c. &c.



THIRD.— **A HORSE HOE, OR CLEANING PLOUGH.**

The cut represents the implement without the mould boards, the heel piece, or back part of the frame, being removed, and having two frames made to shift to any width, with a share in front, and two curved cutters: thus used, it is a perfect Horse Hoe, the share cleaning the bottom of the furrow, while the hoes shave the sides of the ridges.

If needed to be used as a Scarifier for bean rows, potatoes, &c., substitute the flat hoes for the curved cutters. As the Hoe-frame will expand about 3 feet 6 in., it will allow two flat hoes to be used on each side, and thus form a superior Nidget for hop-yards, as also for loose fallows.



FOURTH. — **A SKELETON, OR BROAD-SHARE PLOUGH.**

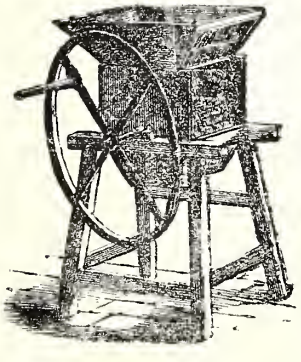
As a Broadshare Plough, use one of the large-sized shares, 14 in. or 18 in., and the small mould boards; or, if preferred without the mould boards, use the prongs. In the former case it will effect good trench ploughing; and, in the latter, it will break up the soil, and leave it in the best state for pulverization. If it be desired merely to cut up weeds, use the large broadshare only without prongs. As a Skeleton Plough, use the large single-winged share, either with or without prongs.

By broad-sharing, or skeleton-ploughing in the autumn, not only is the soil brought into a pulverized state, but the seeds of annuals, roots, weeds, &c., are stimulated to vegetate, and grubs, worms, and the larvæ of insects are destroyed; and it is supposed that, by promoting the attraction and deposit of vegetable effluvia, extensively given off by decayed vegetation at this season, the productive powers of the soil are much increased.

In all these stages it may readily be worked with one horse, and the adjustment of its various parts are so simple as to render further directions unnecessary.

Price of the Plough, complete, with fittings to perform all the above-named operations £6 6 0

GARDNER'S DOUBLE ACTION TURNIP CUTTER.



This well-known and indispensable machine, is used for cutting Turnips into slices suitable for sheep. The pieces average ¾ in. wide by ½ in. thick, while the waste by small irregular pieces is very trifling. By turning the fly-wheel in a contrary way it cuts the turnips into pieces 2¼ in. wide by ⅝ in. thick for cattle. When required, they are sent out fitted with wheels and handles, for convenience of removing from place to place.

PRICE:

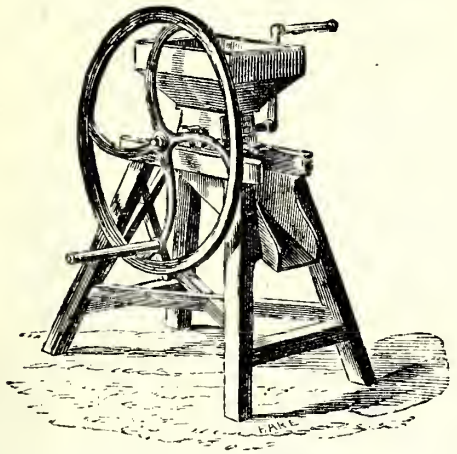
	£.	s.	d.
As a Single Action Machine for Sheep only . .	4	10	0
As a Double Action Machine for Beasts and Sheep.	5	10	0
Fitted with Wheels and Handles, extra . . .	0	13	0

RANSOMES & SIMS, IPSWICH.

BIDDELL'S PATENT BEAN CUTTER, FOR HARD AND SOFT BEANS.

Awarded the Silver Medal of the Royal Agricultural Society at Gloucester; the Silver Medal of the Yorkshire Agricultural Society, at York, 1853; and a Second Class Medal, at the Meeting of the Royal Agricultural Improvement Society of Ireland, at Killarney, 1853.

This Mill, pronounced to be the Gem of the Show Yard at Gloucester, from its simple and novel construction,



possesses advantages which will be obvious to the practical Agriculturist. The largest and smallest varieties of beans are equally well prepared, and this quite independently of the dryness of the grain, for, whether hard or soft, the efficiency of the operation is the same, while no choking can take place. The power required to prepare a given quantity of grain is less than with the ordinary Bean Mill. The great novelty of this Mill consists in the teeth or cutters being made of separate pieces of hardened steel, fixed in a cylinder; each tooth has three prepared cutting edges, so that when one edge, or set of edges, becomes dull, they may be taken out, turned one-third round, put in again, and *a new edge or set of edges* is obtained; and when these fail, they may be again taken out and turned one-third round, and it makes *a second fresh set;* and when this third resource fails, they may be taken out and *easily replaced with new teeth, by an ordinary labourer, at a very small cost, viz. 6s.*

As a satisfactory proof of the estimation in which this Mill was held at the Royal Agricultural Society's Meeting at Gloucester, upwards of ONE HUNDRED were sold on the Show Ground.

One man can crush . .	3 bushels of Beans per hour.
Two men ditto . . .	5 ditto ditto
If driven by horse or steam power, at a speed of 150 revolutions per minute, will grind	24 ditto ditto

	£.	s.	d.
Price	3	15	0
Do., fitted with Crotch for Horse-power	4	5	6
Do., fitted with fast and loose Pulleys for Steam-power	4	16	0

IMPROVED HORIZONTAL DIRECT ACTION FIXED STEAM ENGINE.

Royal Agricultural Society's Meeting, at Lewes, 1852 . . . . *Prize.*
Royal Agricultural Society's Meeting, at Gloucester, 1853 . . . *Commended.*
Royal Agricultural Society's Meeting, at Lincoln, 1854 . . . . **First Prize.**

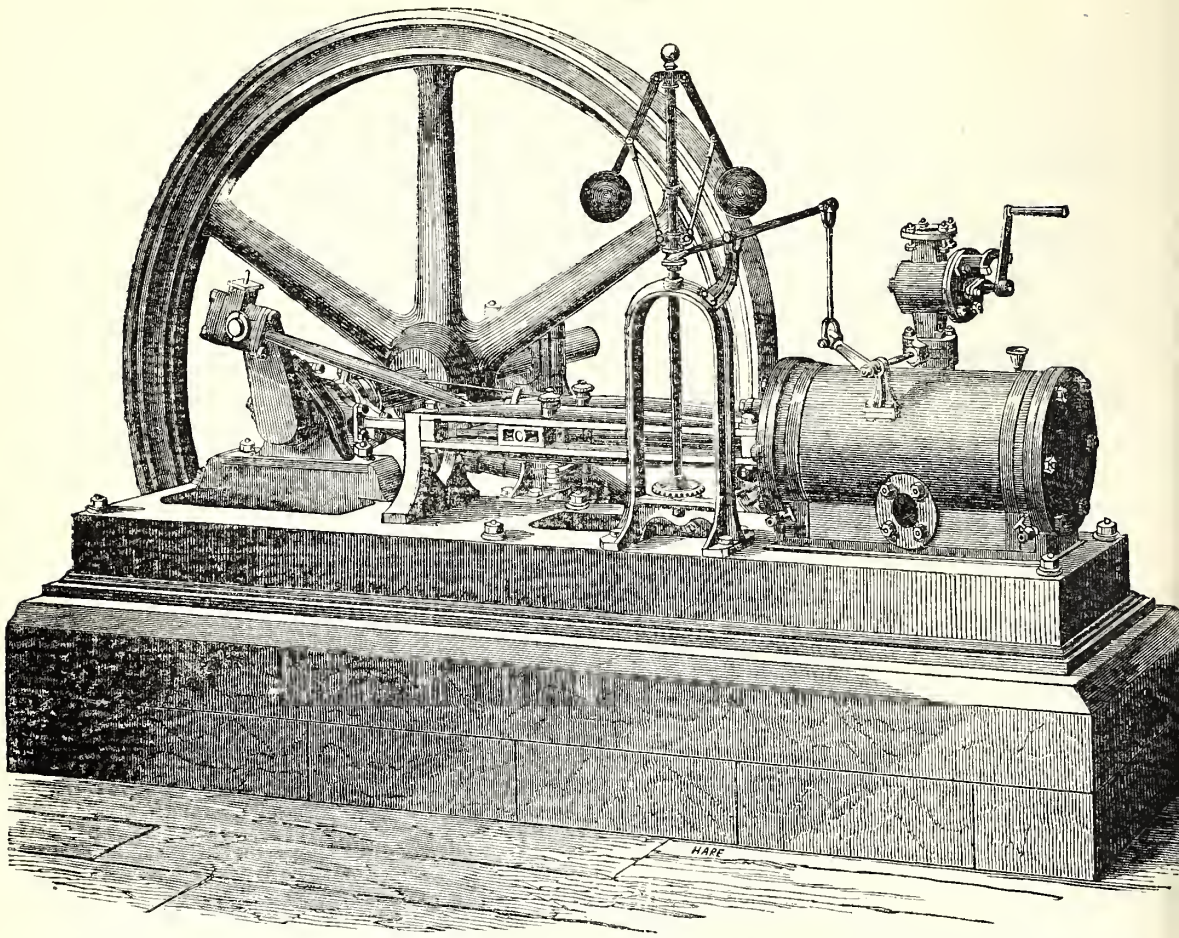
The following Engraving represents R. and S.'s Eight-Horse Power PRIZE Fixed Steam Engine. The Engine exhibited is of FOUR-HORSE POWER, and in its general arrangement is similar to the Prize Engine.

These ENGINES are made of the best materials, and first-class workmanship. They are exceedingly simple in construction, and compact in form. All the parts are easy of access, and afford every facility for adjustment or repairs. They are principally supported on a cast-iron frame, made very strong, and do not require any attachment to the walls of the building in which the Engine is placed. They can be either erected on a stone or brick foundation, or be carried on two wood sills.

These Engines are peculiarly adapted for driving Fixed Thrashing Machines and Barn Machinery, or for sawing and pumping.

They are fitted with a wrought-iron crank shaft and connecting rod; the slide valve is on the best principle; the feed pump is very simple, and not liable to be put out of order; the supply of water to the boiler is very easily regulated: there is a governor of the best construction for controlling the speed of the Engine, and an improved valve for stopping the Engine, when required, without interfering with the throttle valve. The boiler is very simple, and is perfectly safe and easy to manage; the fire is placed in an internal circular flue, and the flame passes through, and along each side of the boiler to the chimney: by this arrangement, all sediment contained in the water can collect underneath the fire-flue without causing any injury to the boiler, which obviates a too frequent source of expense and annoyance in common boilers with the fire placed under the bottom. Any ordinary bricklayer can set the boiler in a very short time, and only a small chimney, of about 30 feet high, is necessary. The boiler is fitted with good safety valves, glass water gauge, and everything necessary for its safe and efficient working; and is very economical in the consumption of fuel.

Engines of this construction are well adapted for grinding corn, as one of *Eight-Horse* power will drive three pairs of 3 feet 8 in. millstones; and they can readily be attached to ordinary millstones in wind or water mills, and are, therefore, well worthy the attention of millers, who may wish to insure the means of driving a pair of stones, at all times, with economy and regularity.



The following Prices of Engines of similar construction to the above include the Engine, Boiler, and all the necessary Fittings for the Boiler, but not the connections between it and the Engine, the cost of which varies according to the distances they are placed asunder. If required, RANSOMES & SIMS will send a competent mechanic to fix the Engine and set the Boiler, charging for his time and the amount paid for travelling expenses.

Twelve-Horse Fixed Steam Engine	. . . . .	£270	0	0
Ten-Horse	,, ,,	. . . . .	220	0	0
,,	,, ,,	fitted with Expansion Gear .	250	0	0
Eight-Horse	,, ,,	. . . . .	195	0	0
Seven-Horse	,, ,,	. . . . .	190	0	0
Six-Horse	,, ,,	. . . . .	180	0	0
Five-Horse	,, ,,	. . . . .	170	0	0
Four-Horse	,, ,,	. . . . .	150	0	0

The above Prices are for Cash on delivery in London, and are subject to 2½ per Cent. Discount for such payment.

SEVEN-HORSE POWER PORTABLE STEAM ENGINE.

Consuming 5$\frac{1}{10}$ lbs. of Coals per Horse-power per hour.

Royal Agricultural Society's Meeting, at Lewes, 1852 . . . . . *Commended.*
Royal Agricultural Society's Meeting, at Gloucester, 1853 . . . *Commended.*
Royal Agricultural Society's Meeting, at Lincoln, 1854 . . . . **Prize.**

In the manufacture and construction of these Engines the best materials and workmanship are combined.

These Portable Steam Engines, adapted for thrashing, sawing, grinding, pumping, and other agricultural purposes, are of very simple construction, and, having but few working parts, there is little liability to get out of order. All the parts are so placed as to be constantly under the eye of the Engine-man, and are very easy of access. They are fitted with a superior governor, and an effective regulator valve for stopping and controlling the speed of the Engine. There is a simple and efficient feed pump, which insures, at all times, a regular supply of water to the boiler. The crank shaft and connecting rod are of wrought iron, and the slide valve is of the most im-

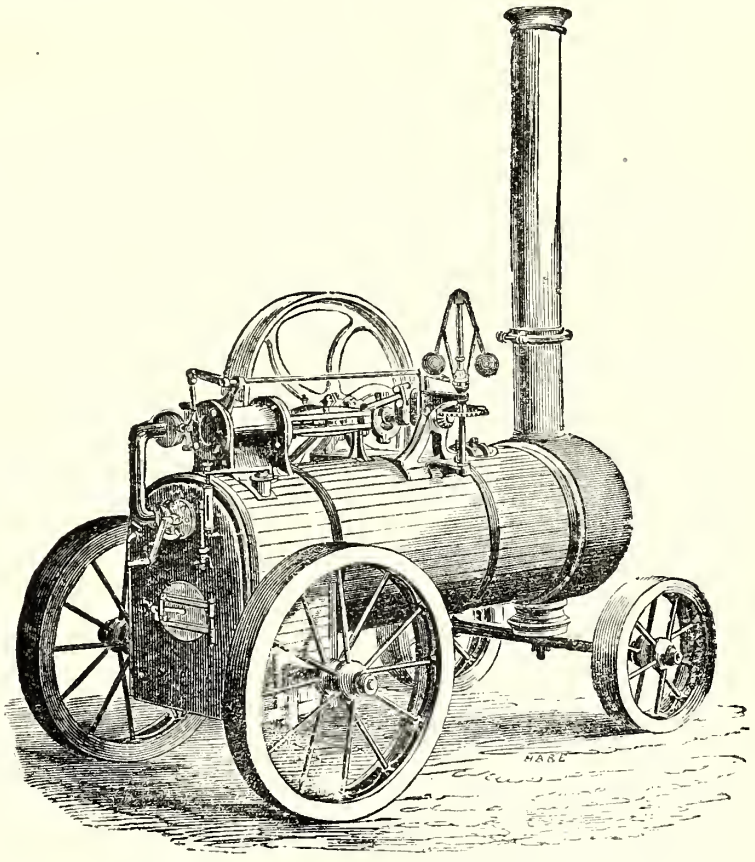
proved construction. The boilers are of a superior description, made on the same principle as the best locomotive boilers, and tested to a pressure of 100 lbs. per square inch. R. and S. have directed especial attention to this important part of the Engine, with a view of obviating the danger arising from the inferior manner in which boilers fitted to Agricultural Engines are too often made. These Engines require but little fuel, and are free from danger by fire to the surrounding ricks and farm buildings, the ash pan being closely fitted to the fire box, and containing water for extinguishing the cinders as they fall from the bars.

These Engines thrash, with ease, from 50 to 80 quarters of wheat of average yield per day, and are readily managed by an intelligent farm servant, on whose care will depend, in a great measure, the quantity of fuel consumed. The price quoted includes water-proof cover, tube cleaner, fire pricker, rake, screw spanners, oil can, a large funnel, and spare gauge glass.

Ransomes & Sims' Portable Engines are fitted with their

REGISTERED LOCKING GEAR,

the underside or bearing surface of which (secured to the Engine smoke box) is made spherically convex, whilst the corresponding surface, bolted to the top of the axle, is concave to fit, instead of having flat working surfaces of the usual kind, the central bolt forming the link of connection between the two. The advantages of the plan are, that whilst the fore axle and wheels are perfectly free to turn horizontally, the axle itself is also free to move vertically; so that, should either of the fore wheels meet with any obstruction tending to alter the axle's horizontal position, the body of the vehicle is at once relieved from all cross strain, and is maintained undisturbed in its level position.



PRICES:

	£.	s.	d.
Five-Horse Power	190	0	0
Seven-Horse Power	215	0	0
Ten-Horse Power	275	0	0

The above Prices are for Cash on delivery in London, and are subject to 2½ per Cent. Discount for such payment.

FULL WORKING DIRECTIONS ARE SENT WITH EACH ENGINE.

RANSOMES & SIMS, IPSWICH.

DAVY'S PATENT FLAX MACHINE.

RANSOMES & SIMS are the appointed Manufacturers of the above Machines, and will be pleased to execute any order for them. The Decorticating Machine was exhibited by them in work at the late Annual Meeting of the Royal Agricultural Society of England and attracted much attention there.

The following is extracted from the Society's Report on the Exhibition, and Trials of Implements at the Lincoln Meeting, 1854.

"*Flax Machine.* This Machine removes the objection that exists among farmers to the cultivation of flax, as it brings the fibre into a marketable condition without the troublesome process of retting and hand scutching; it was driven by steam and required but one horse-power to work it.

"We had only one machine to try for the purpose of breaking flax and separating the seed and fibre from the straw as soon as harvested. We consider it capable of effecting these objects without steeping. We weighed out 7 lbs. of straw, which produced 4¼lbs. of rough flax for the Scutching Machine. After the process of scutching we had 2lbs. 9 oz. of marketable flax and tow; 1 lb. of the former and 1lb. 9 oz. of the latter.—On the above grounds we had no hesitation in awarding a Medal.

"JAMES HALL NALDER.
"H. B. CALDWELL."

DAVY'S SCUTCHING MACHINE.

The Scutching Machine is employed for removing the broken and loose woody particles which will be found partially adhering to the fibre after it has passed through the Decorticator — and it is then marketable for manufacturing purposes.

N.B. The Inventor of the above Patent Machinery had intended to have exhibited the same at work at the Paris Exhibition, and had made his arrangements for this purpose, but his rather sudden and lamented death has prevented this arrangement from being carried out at the present time.

Patents have been taken out, or applied for, for Davy's Flax Machinery, in France, Belgium, Holland, Austria, Saxony, and America, and Ransomes and Sims are prepared to receive propositions for working the same.

RANSOMES & SIMS'

DESCRIPTIVE CATALOGUE SENT FREE BY POST

THROUGHOUT ENGLAND,

On application by letter addressed to them at Ipswich, or to SHEPPARD RANSOME, 31, Essex Street, Strand, London. They may also be had at R. & S.'s Stand, No. 147, at the Paris Exhibition.

The Goods described in R. & S.'s Catalogues are delivered by Rail to London.

A Discount of 5 per cent. will be allowed for Cash on receipt of Invoice, excepting Steam Engines, Thrashing Machines and Horse-powers, upon which 2½ per cent. for Cash will be allowed.

TERMS FOR STEAM ENGINES AND STEAM THRASHING MACHINES,

Cash on receipt of Invoice, with a Discount of 2½ per Cent.

ALL FOREIGN ORDERS TO BE ACCOMPANIED BY AN ORDER FOR PAYMENT IN LONDON ON PRESENTATION OF INVOICE.

BRANCEPETH, WILLINGTON, AND BITCHBURN COLLIERY OFFICES.

Newcastle-on-Tyne and West Hartlepool, March, 1855.

Sir,

We take the liberty of calling your attention to the very excellent quality of our Sepping's and Willington Wallsend Coals for Household purposes, as they are found to make a remarkably hot, durable, and clear fire, with an unusually small quantity of ashes. The Small they produce makes excellent Coke, and is also much sought after for Blacksmiths' use.

Brancepeth and Willington Unscreened and Nut Coals are most extensively used for making Gas and Coke, also for Blacksmiths' purposes, owing to their remarkable strength and purity.

Brancepeth Coke contains about 96 per Cent. of Carbon, and is now considered, by some of the most eminent Civil Engineers, to be the best that is produced for Locomotive purposes, owing to its great strength, freedom from sulphur, and making no scar or clinker on the furnace bars. Iron-Founders state that about 2 cwt. of it will melt 1 ton of iron, and that it softens and purifies it. The Honorable East India Company use it in their Mint at Bombay. Willington Coke is similar to Brancepeth in quality. *We are preparing to increase our yearly make to* 350,000 *Tons.*

Willington and Bitchburn Fire Bricks are approved of by Plate Glass Manufacturers, Gas Light Companies, Iron Founders, Coke Burners, &c. As we have extended our Manufactories, we now have it in our power to execute extensive orders on very short notice. Our weekly make is equal to about 150,000 Bricks.

Below we beg to hand you a List of our Prices, also copies of a few of the Testimonials we have been favored with, and, soliciting the favor of your orders,

We remain your most obedient Servants,

STRAKERS & LOVE.

P.S.—By permission we can give you references to some of the leading Railway and Gas Companies; also to the Proprietors of Iron Works, who will give information as to the superior quality of our Coals and Coke.

FREE ON BOARD, AT	*Port Clarence, in the Tees.*	*Hartlepool West Dock.*	*Rivers Tyne and Wear.*
	£. s. d.	£. s. d.	£. s. d.
Sepping's Wallsend House Coal . . . . . per Ton.	0 9 0	0 9 0	
Willington Unscreened . . . . . ,,	0 8 6	0 8 6	
Tees Hartley Steam . . . . . ,,	0 8 6	0 8 6	
Brancepeth Wallsend . . . . . ,,	0 8 9	0 8 9	
Do. Unscreened . . . . . ,,	0 8 6	0 8 6	
Do. Nuts . . . . . ,,	0 8 0	0 8 0	
Do. Railway and Foundry Coke . . ,,	0 18 0	0 18 0	1 0 0
Fire Bricks . . . . . per Thousand.	2 15 0	2 15 0	
Fire Tiles and Lumps, all Sizes, to Order . . per Ton.	1 10 0	1 10 0	
Fire Clay . . . . . ,,	0 12 0	0 12 0	

BRANCEPETH, WILLINGTON, AND BITCHBURN COLLIERY OFFICES.

London and North Western Railway.

Coke Department, Victoria Station, Manchester, May 24, 1853.

Messrs. Strakers and Love,

Gentlemen,—In reply to your favor I beg to state, that during the last *four-and-half years* I have received on the part of the Northern Division of this Railway, and its workings, large supplies of your Brancepeth Coke, and consider it a first-rate article, free from pyrites or other injurious matters, and during the time *have not had one complaint against it.*

I am yours truly,

ALF. HARRINGTON,

Coke Superintendent.

The Great Northern Railway.

Locomotive Department, Doncaster, Engineer's Office, June 12, 1852.

Gentlemen,—I have the honor to acknowledge yours of the 10th instant, and in reply have much pleasure in certifying that I use a considerable quantity of Brancepeth Coke on this Line of Railway, and that it is of excellent quality.

I remain your obedient Servant,

ARCHIBALD STURROCK.

Messrs. Strakers and Love.

Midland Railway.

Office, Derby, March 1, 1849.

Gentlemen,—I have now used a large quantity of your Brancepeth and Bitchburn Coke, and continue to approve of it for locomotive purposes.

I am yours, &c.,

M. KIRTLEY.

To Messrs. Strakers and Love.

York, Newcastle, and Berwick Railway.

Locomotive and Carriage Department, Gateshead, January 8, 1848.

Gentlemen,—In answer to your application for my candid opinion of your Brancepeth Coke, I beg to inform you I consider it one of the best kinds of Coke in the district. I have used it for three years, and have found it to answer railway purposes exceedingly well.

I am, Gentlemen, yours respectfully,

EDWARD FLETCHER.

To Messrs. Strakers and Love.

Manchester, Sheffield, and Lincolnshire Railway.

Locomotive and Carriage Department, Gorton, December 5, 1851.

Gentlemen,—I consider your Brancepeth Coke equal to the best I ever used for locomotive purposes.

Yours respectfully,

R. PEACOCK.

Messrs. Strakers and Love.

Birkenhead, Lancashire, and Cheshire Junction Railway.

Engineer's Office, Birkenhead, December 22, 1851.

Gentlemen,—In reply to your inquiry about Brancepeth Coke, delivered to this Company, I have great pleasure in stating it is of a very superior quality and well adapted for locomotive purposes, free from sulphur and not liable to clinker on the bars or foul the tubes.

Yours truly,

GEORGE DOUGLAS,

Engineer and Locomotive Superintendent.

Messrs. Strakers and Love.

Glasgow, Paisley, and Greenock Railway Company.

Locomotive Department, Greenock, October 12, 1846.

James Tasker, Esq.

Dear Sir,—I have much pleasure in reporting to you that the Coke from Messrs. Strakers and Love gives me much satisfaction, and I trust they will continue to supply us with the same quality. *It possesses the two great desiderata of evaporating a considerable quantity of water in proportion to its weight, and it does not form clinkers on the bars.* In a recent trial with another English Coke, the results were as follow:

Messrs. Strakers and Love, 25·896 lbs. per Mile.
Messrs. ——————, 28·40 „ „

I am, dear Sir, yours truly,

ROBERT SINCLAIR.

The Dundee and Perth and Aberdeen Junction Railway Company.

Dundee, October 11, 1848.

Dear Sir,—In compliance with your request, that I should state my opinion as to the quality of Messrs. Strakers and Love's Brancepeth and Bitchburn Coke, with which you have been supplying this Company for the last twelve months, I have much pleasure in stating that we prefer Strakers and Love's Coke to all others. The quality is remarkably uniform, with a strong body, very little sulphur, and few clinkers. We have had long experience of it, having used scarcely any other on the Dundee and Perth Line since the opening, and on the Dundee and Newtyle Line we have used it constantly for the last six or seven years.

I am, dear Sir, yours faithfully,

RICHARD BAIRD,

Manager.

To Thomas Nicholson, Esq., Dundee.

Sotteville-les-Rouen, 22nd October, 1852.

The undersigned certify that they have used considerable quantities of Coals furnished by Messrs. Strakers and Love, and that they are satisfied with the quality of the Coke made from the same.

BUDDICOM & CO.

BRANCEPETH, WILLINGTON, AND BITCHBURN COLLIERY OFFICES.

Cork and Bandon Railway.

"The Engineer [Mr. Nixon] reports that the Average Consumption of Coke by all the Trains, Goods and Passengers, is under 19 lbs. per mile, which, we agree with him, unquestionably is a small consumption upon a line with long heavy gradients and curves. The fast Passenger Trains are run by light Locomotives, at a consumption of only 10 lbs. per mile, including lighting and standing in steam."—*Herapath's Railway Journal.*

Cork and Bandon Railway Company, Engineer's Office, 62, South Mall, Cork, August 16, 1852.

Dear Sirs,—I have much pleasure in being able to bear testimony to the superiority of your Coke for Locomotive Engines. It has been used on this line for a period of more than three years, and has proved very satisfactory.

I am, dear Sirs, yours faithfully,

CHARLES NIXON,

Messrs. Strakers and Love,
Newcastle-on-Tyne.

LONDON WORKS, *Birmingham, January* 4, 1854.

Gentlemen,—We regret that your favor of the 17th ultimo has remained so long without reply, but the requisite investigations on the subject, and the Christmas holidays, have combined to make the delay unavoidable. It is, however, with pleasure that we now bear testimony to the fact that your Brancepeth Coke is of a very superior quality, quite equal to the best we have been supplied with by other parties, and capable of taking as great a load of Iron.

We are, Gentlemen,

Your obedient Servants,

FOX, HENDERSON, & CO.

Messrs. Strakers and Love, Newcastle.

STEAM ENGINE WORKS, *Limehouse, London, December* 9, 1844.

Gentlemen,—The Brancepeth Coke you supplied us with we gave a fair trial to in our Foundry, and we found it to be strong and very free from sulphur, consequently well adapted for melting Iron.

We are, Gentlemen,

Your obedient Servants,

J. & A. BLYTH.

To Messrs. G. W. Morrison and Co.,
Middlesbro' Wharf, London.

WALKER IRON WORKS, *Newcastle-on-Tyne, August* 6, 1846.

Gentlemen,—In answer to your favor of yesterday, we have no hesitation in saying your Coke is equal to any we use for Foundry purposes.

Yours faithfully,

LOSH, WILSON, & BELL.

FALKIRK IRON WORKS, *February* 8, 1848.

Messrs. Strakers and Love, Newcastle-on-Tyne,

Gentlemen,—We have much pleasure in stating that having used your Brancepeth Coal for Foundry Coke for many years, we consider it the best we can get anywhere for that purpose.

We are, Gentlemen,

Your most obedient Servants,

For FALKIRK IRON COMPANY, GRAHAM HARDIE.

NORTHAM IRON WORKS, *March* 8, 1851.

Messrs. Strakers and Love,

Gentlemen,—The Brancepeth Coke you have supplied us with is strong and free from sulphur, and we consider it economical.

Your obedient Servants,

SUMMERS, DAY, & BALDOCK.

COVENTRY ENGINE WORKS, *June* 22, 1853.

Messrs. Strakers and Love,

Gentlemen,—Large quantities of your Coke have been used in my Foundries for many years, being fully satisfied by every test that can be made, there is no other so free from sulphur, economical, and effective in the melting of Iron.

Yours most respectfully,

JOHN S. DUNN.

SUNDERLAND FOUNDRY
AND SEAHAM IRON WORKS, *March* 28, 1853.

Messrs. Strakers and Love,

Gentlemen,—We have tried your Coke for about Ten Years, and find it to answer our purpose much better than any we get; it bears a greater alloy of old metal, and is in every respect the best we can get for Foundry purposes.

We are, Gentlemen,

Yours respectfully,

For ROBERT WIGHT & SON, WM. BURN.

PHŒNIX IRON WORKS, *Glasgow, September* 27, 1853.

Gentlemen,—We hereby certify that we have repeatedly lately made use of Coke from the Brancepeth Colliery, for melting Cast Iron, and we have always found it to be of better quality, and stronger, and to go farther, than any Coke we can get from any other quarter.

THOS. EDINGTON & SONS.

To Messrs. Strakers and Love.

SHERWOOD IRON WORKS, *Mansfield, March* 11, 1851.

Gentlemen,—I have used your Coke for nearly two years, and have melted Iron for both heavy and light ornamental Castings, that I consider it upon the whole superior to any other, the renewal of my orders is the best proof.

I am, Gentlemen, yours obediently,

FRANCIS WAKEFIELD.

Messrs. Strakers and Love.

Dartford Gas Works.

Dartford, June 7, 1853.

Messrs. Strakers and Love,

Gentlemen,—I can, without reserve, avow my unqualified approbation of your Brancepeth Coals for Gas-making purposes. No coals that I have been in the habit of using for the last quarter of a century have produced Gas of such purity, quantity, and quality as these have, and the products also—Coke, Tar, &c.—are equally unobjectionable. The Coke, for heating purposes, is superlative, as it leaves no clinker. The preference given to it by the public, for domestic uses, is a demonstration of the estimation in which it is held.

I am, Gentlemen,

Your obedient Servant,

WM. GREEN, Manager.

Rochford Gas Works.

Rochford, Essex, June 7, 1853.

Gentlemen,—The Brancepeth Gas Coals the Rochford Gas Company have had of you have been very good, and they gave a decided preference to them; in proof of which, after trying other Coals they have returned to, and for a long time past used only Brancepeth Coals. The recommendations I can give of them are that they produce considerably above the average quantity of Gas, of very good illuminating quality—an abundance of very excellent Coke, and do not require half the quantity of lime for purifying as other Coals used by us, and I can see no reason to be dissatisfied with, or any inducement to prefer others to them.

I am, Gentlemen, yours respectfully,

GEORGE WOOD,

Secretary of the Rochford Gas Company.

Messrs. Strakers and Love, Coal Agents,
Hartlepool.

Sheerness Gas Works.

Sheerness, June 8, 1853.

To Messrs. Strakers and Love.

Gentlemen,—I have now used the Brancepeth Coals almost continually ever since the year 1843: during sixteen years' management of Gas Works I have used various sorts of Coals, with a view to ascertain their quality and capabilities of producing Gas and Coke. I have found the Brancepeth to answer my purpose the best; the Stokers have invariably called them "Our own Coals." I still continue to use them; and I have great pleasure in recommending them: they produce good Gas and good Coke.

RICHARD BRIGHTMAN.

Sittingbourne Gas Works.

Sittingbourne, January 19, 1848.

Gentlemen,—My candid opinion as to the Brancepeth Coal is that it is the best that can be used. I can make 10,000 feet of Gas per Ton, and plenty of Tar, and the Coke is first quality.

Yours obediently,

GEORGE SMEED.

Messrs. Strakers and Love.

Jersey and Guernsey Gas Works.

July 26, 1848.

Gentlemen,—I have great pleasure in stating that I have for several seasons used your Brancepeth Coal at the above Works, which I find superior to any I have before used, both in quantity and quality of the Gas produced. The Coke is also of good quality, and in larger proportion than from any Coals I have used. I feel it due to you to state, that I have tried most of the Gas Coals in use, but I have not found any so much to my satisfaction as those from your Colliery above referred to.

I am, Gentlemen,

Your obedient Servant,

THOMAS EDGE.

Messrs. Strakers and Love.

Exeter Gas Works.

Exeter, January 15, 1848.

Gentlemen,—In reply to yours of the 13th, I have much pleasure in stating, that having used your Brancepeth Unscreened Coals during the last three years, I can with confidence recommend them as being well adapted for Gas purposes. They yield a good quantity of Gas, very free from sulphur, and make an excellent Coke.

I am, Gentlemen,

Your obedient Servant,

RD. WILLIAMS, Jun.

Messrs. Strakers and Love,
Middlesbro'-on-Tees.

Falmouth Gas Light and Coke Works.

Falmouth, February 8, 1848.

Gentlemen,—If my testimony as to the superior quality of the Brancepeth Coal can be of any service, you are very welcome to the use of it to this effect, "That the Brancepeth is a first-rate Coal, either for making Gas or Coke."

And I remain, Gentlemen,

Your very obedient Servant,

ROBERT P. WYNN.

Messrs. Strakers and Love.

THAMES PLATE GLASS WORKS, *Blackwall, London, February* 15, 1848.

Messrs. Strakers and Love,

Gentlemen,—In reply to your inquiry, I beg to inform you that I have used your Fire Bricks and Clay for two years past with great satisfaction. I need scarcely observe that our test is a very severe one, and that our continued and almost exclusive use of your Bricks and Clay during the period named, for purposes connected with our furnaces, indicates our high opinion.

I am, Gentlemen,

Your obedient Servant,

R. LAW, Manager.

Great Exhibition of the Works of Industry of all Nations, London, 1851.

A PRIZE MEDAL

WAS AWARDED TO

MESSRS. JOHN WILSON AND SON,

Sheffield,

Being THE ONLY ONE given,

For SHOE, BUTCHERS', COOKS', CURRIERS' and FARRIERS' KNIVES, BUTCHERS' STEELS, &c.

Corporate Mark Established, 1750.

Grande Exposition des Ouvrages de l'Industrie de toutes les Nations, Londres, 1851.

P R I X

ADJUGÉ À

MESSRS. JEAN WILSON ET FILS,

Sheffield,

SEUL PRIX donné,

Pour les COUTEAUX, de CORDONNIER, de BOUCHER, de CUISINIER, de CORROYEUR, et de MARECHAL, les ACIERS de BOUCHER, &c.

Corporate Mark s Établit 1750.

DUNN, HATTERSLEY, & Co.

MACHINISTS, ENGINEERS, AND BOILER MAKERS,

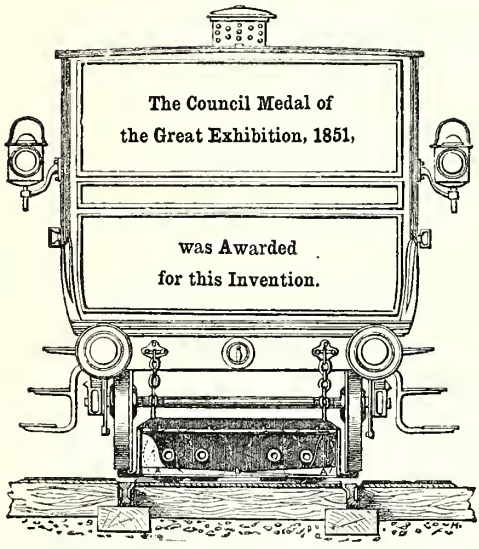
Windsor Bridge Iron Works,

NEAR MANCHESTER.

March 23rd, 1855.

LIST OF PRICES.

4′–8½″ GAUGE, DELIVERED IN MANCHESTER.



The above Woodcut represents one of Dunn's Patent Low Shelved Traversers, adapted for Passenger Stations.

Dunn's Patent Traversers.

		£.	s.	d.
Of Wrought Iron.	12 feet long	125	0	0
Ditto	13½ ditto	135	0	0
Ditto	15 ditto	155	0	0
Ditto	18 ditto	180	0	0
Ditto	22 ditto	200	0	0
Ditto	26 ditto	240	0	0
Cross Tram-rails and Bolts, per foot, wrought iron		0	4	0

Packing Cases, cost price extra.

N.B.—Cast Iron Traversers, suitable for small Stations, from 5*l.* to 6*l.* per foot in length.

Dunn's Patent Cast Iron Siding and Warehouse Tables.

10 Feet diameter, warranted to carry 15 tons		30	0	0
11 Ditto	ditto ..	35	0	0
12 Ditto	ditto ..	40	0	0
13 Ditto	ditto ..	45	0	0

Common Cast Iron Full Top Turntables, for Sidings. &c.

11 Feet diameter, to carry 20 tons, cast in parts for easy carriage, planked tops					65	0	0
12 Ditto	ditto	ditto	ditto		75	0	0
13 Ditto	ditto	ditto	ditto		85	0	0

Wood's Patent Full Top Turntable.

11 Feet diameter, to carry 30 tons				75	0	0
12 Ditto	ditto			87	0	0
13 Ditto	ditto			100	0	0

Self Foundations of Iron extra.

Windsor Bridge Iron Works.

Dunn's Patent Wrought Iron Beam Turntables, to carry 30 tons.

Made for easy shipment and transit.

	£.	s.	d.
12 Feet diameter, to carry 30 tons ..	72	0	0
15 Ditto	90	0	0
18 Ditto	110	0	0
20 Ditto	120	0	0
30 Ditto, with gear for turning engines ..	230	0	0
33 Ditto ditto ..	250	0	0
36 Ditto ditto ..	270	0	0
40 Ditto ditto ..	290	0	0
45 Ditto ditto ..	320	0	0

Steam Travelling Cranes and Derricks according to power.

Single and Double Purchase Crabs.

No. 1. Crab to lift 1 ton, ... each	5	10	0
No. 2. Ditto 2 ditto .. .. „	6	10	0
No. 3. Ditto 3 ditto .. .. „	7	0	0
No. 4. Ditto 5 ditto .. .. „	8	10	0
No. 5. Ditto. Double geared to lift 10 tons	14	0	0
No. 6. Ditto ditto 20 ditto	20	0	0

Cranes to Work by Hand.

	£.	s.	d.
To lift 2 tons, Wharf or Independent ..	50	0	0
3 ditto ditto ..	60	0	0
5 ditto ditto ..	100	0	0
6 ditto ditto ..	120	0	0
10 ditto ditto ..	190	0	0
20 ditto ditto ..	400	0	0
30 ditto ditto ..	550	0	0
50 cwts. Portable, including carriage	80	0	0
60 ditto ditto ditto ..	100	0	0
5 tons ditto, wheels tyred with wrought iron	150	0	0
10 ditto ditto, iron frame ditto	270	0	0
Shear leg, hoist 20 tons	130	0	0
Ditto ditto with timber ..	150	0	0

NOTE—*We have a few light patterns for cheaper cranes.*

Best Wrought Iron Blocks, Proved.

To lift 3 tons, per pair	3	0	0
5 ditto ditto	6	0	0
10 ditto ditto	15	0	0
20 ditto ditto	25	0	0
30 ditto ditto	40	0	0

Hydraulic Machinery.

Machine and Apparatus for Forcing Railway Wheels on and off their Axles. 200 tons pressure.	150	0	0
Chain Cable Testing Machine to work by hand, to test from 1 cwt. to 130 tons, with Steelyard, Balance, and Weights	230	0	0
Ditto ditto to test up to 180 tons	270	0	0
Ditto ditto ditto 200 ditto	300	0	0
Ditto ditto ditto 230 ditto, and with gear to work by power	360	0	0
D or Trough Pipes *charged extra according to the length required.*			
Hydraulic Press, 200 tons pressure	90	0	0
Ditto 300 ditto	120	0	0
Ditto 500 ditto	200	0	0
Ditto 1000 ditto	380	0	0
Double Screw Press for Raw Cotton, &c., &c., suitable for India or America	600	0	0
Screw Press on Carriage for straightening Rail Bars or bending ditto	30	0	0

Boilers.

Rose's Patent Multitubular Boilers, per horse power	8	10	0
Camron's Patent Double Cone Boilers, ditto	9	0	0
Dunn's Patent Duplicate Retort Boilers for easy carriage; suitable for export, ditto	8	0	0
Common Flue Boilers, ditto	6	10	0
Or, per ton	20	0	0
Water Tanks for Locomotive purposes, per ton	20	0	0
Strong Pumping Engines, or for general work, per horse power	14	0	0

Andrew's Patent Boilers for Marine and other purposes.

SCHLESINGER, WELLS, & CO.,

Patent Needle Gun Manufacturers,

AND

AMMUNITION WORKS

TO THE TURKISH GOVERNMENT,

ALBION HALL,

LONDON WALL, LONDON,

AND AT THE NORTHFLEET WORKS, NORTHFLEET, KENT.

Exhibitors at the Great Exhibition of 1851 in London, and at the present Exhibition, in Class VI., Sec. 11, No. 598, and in Class XIII., Sec. 9, No. 1373.

LIST OF ARTICLES MANUFACTURED

BY SCHLESINGER, WELLS, & CO.

	£.	s.
Patent Breech-loading Gun (Fowling-Piece)	10	10
Ditto ditto Finest description	21	0
Ditto ditto Rifle	10	10
Ditto ditto ditto Finest description	21	0
Ditto ditto Ship store Gun	5	5
Ditto ditto Military Musket, from	3	10
Ditto ditto ditto Rifle	4	0
Ditto ditto ditto Carbine	3	10
Cartridges to fit above Guns	from 70*s.* per 1000	
Copying Press	from 1*l.* 10*s.* to 3*l.* 3*s.*	
Ditto Mahogany Stand	5*l.*	
Numbering Machines for numbering Bank Notes, Ledgers, or other Documents	20*l.*	
Paper Cutting Machines	from 35*l.* to 70*l.*	
Patent Letter Clips	from 12*s.* per dozen to 20*s.*	
Autographic and Lithographic Machines	from 5*l.* to 20*l.*	

Steam Engines of every description, Marine Engines, and Boilers of all sizes.

Manufacturers of Russell's Patent Stowing, Lowering, and Disengaging Apparatus for Ships' Boats.

Fig. 1

Fig. 10.

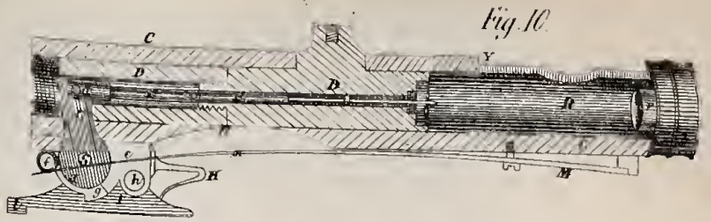


Fig. 2.

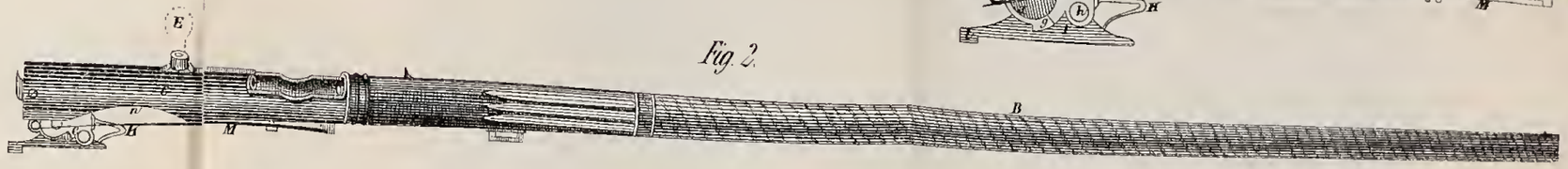


Fig. 3.

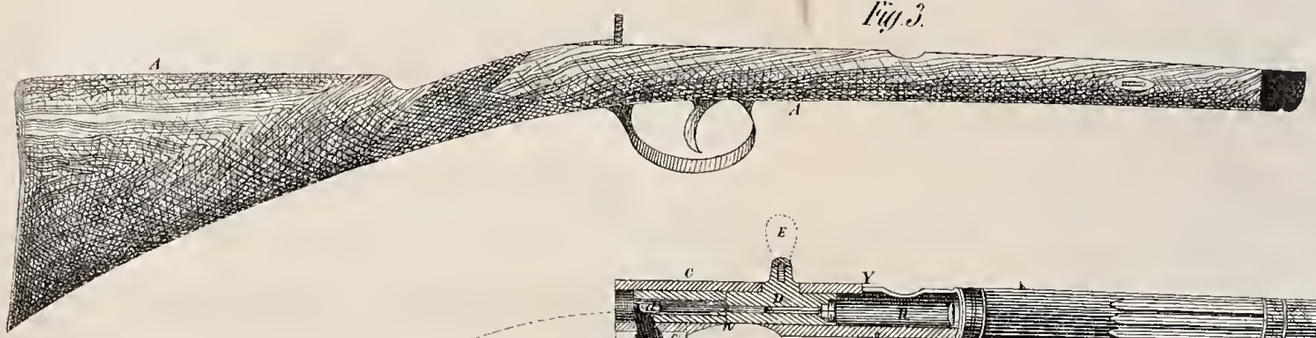


Fig. 11

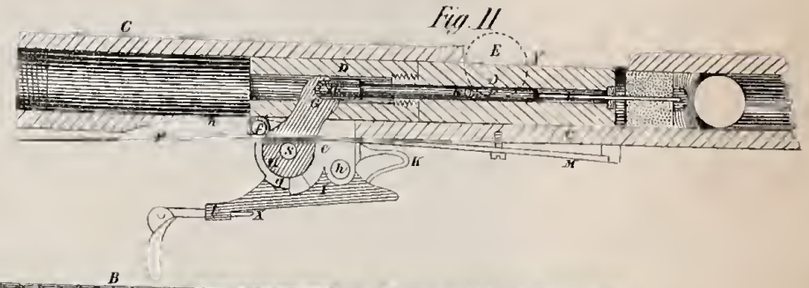


Fig. 4.

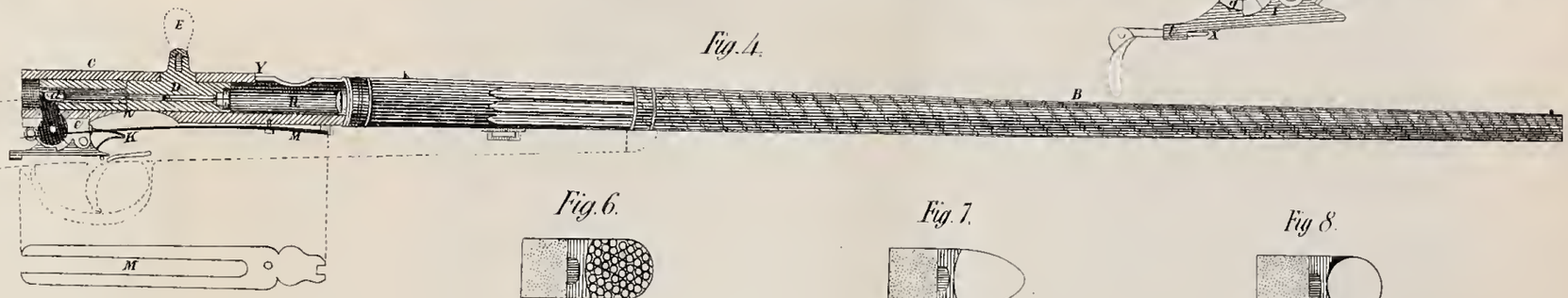


Fig. 6.

Fig. 7.

Fig 8.

Fig. 5.

SCHLESINGER'S PATENT BREECH LOADING FIRE ARM.

SPECIFICATION ENROLLED JANUARY, 1853.

Albion Hall, London Wall, London.

FACTORY, NORTH FLEET WORKS, KENT.

Figs 1.2.3.4.5.9

1 Foot

Figs 6.7.8.10.11

1 Foot

M Coon, 26 College St, College Hill.

GILBY'S PATENT BREECH-LOADING RIFLE.

Rotation Number 1363.

This Rifle is charged at the breech with great facility, and may also be made to cap itself by the insertion of a cap-holder in the stock, by which the nipple takes up its own cap every time that the breech is thrown up for charging, as seen in some of the Rifles exhibited. It will be observed that this Rifle may be loaded with loose powder and ball as easily as with cartridge, an advantage possessed by very few Breech-loading Guns except Revolvers, and the escape is necessarily far less than in the revolving principle, owing to the breech being held firmly to the barrel during the discharge by the bolt that secures it in its place. The shooting is very strong and true, and the process of loading very rapid. It will not foul sooner than the common Rifle. It may be readily taken to pieces for the purpose of cleaning, and the use of patches may be dispensed with, if a little oil be passed down the barrel occasionally. It is confidently recommended as a very perfect weapon, and is offered to the public at as low prices as any other gun-work of the same quality.

METHOD OF USE.—Raise the cock, and press firmly on the projecting iron nut (or in large Rifles, draw the slide), when the breech will immediately spring up; put the charge of powder into the breech, and press the ball upon it with the top of the flask; shut the breech down into its place, and, if not a self-capper, put on the cap. These operations, after a little practice, can be performed in a few seconds.

This Rifle is patented in England, France, Holland, and Belgium, and the Inventor is prepared to treat on the most moderate terms with the Gun-trade for the patent rights in those countries.

The prices of the Rifles exhibited, and any other information may be had from Mr. JOHN GILBY, BEVERLEY, England; or from his Agent in Paris (during the time that the Exhibition is open), M. DE FONTAINE MOREAU, 39 RUE DE L'ECHIQUIER, PARIS.

GILBY BREVETÉ

FUSIL À CULASSE S'AMORÇANT DE LUI-MÊME PAR UNE CAPSULE.

Ce Fusil se charge par la culasse avec une grande facilité; il est construit de manière à s'amorcer seul, par le moyen d'une cheminée adaptée au canon, pour recevoir la capsule. Il ne faut simplement que lever la culasse en l'air, on verra alors la capsule se placer d'elle-même sur la cheminée. Il est bon de remarquer que les inconvénients que l'on fait valoir généralement aux Fusils à Culasses, sont obviés dans celui-ci: il est d'une grande force et d'une grande sureté; il se charge en quelques secondes, soit avec une cartouche, soit avec de la poudre simple. Il ne s'emplit qu'après bien longtemps, et on tire autant de coups qu'avec n'importe quel fusil.

On peut le démonter pièce par pièce pour le nettoyer; l'huile n'est pas absolument nècessaire, mais, si on a beaucoup tiré, un peu d'huile ou de graisse le fera partir plus aisément et plus agréablement. La balle n'a pas besoin d'être enveloppée, la graisser seulement est avantageux; le coup est très fort et juste; on doit se servir d'une balle soit ronde ou conique, mais elle doit être d'un peu plus gros calibre que le canon. Il serait superflu d'entrer ici dans plus de détails relatifs aux avantages de ce Fusil, mais il est recommandé au Public et aux Fabricants d'Armes comme supérieur à tout ce qui a été fait jusqu'à présent; il est breveté dans tous les pays principaux de l'Europe et de l'Amérique.

MANIÈRE DE S'EN SERVIR.—Levez le chien et changez la veille capsule de la cheminée; appuyez sur le petit bouton en fer, alors la culasse s'ouvrira immédiatement, mettez-y la charge de poudre et ensuite la balle par-dessus. Refermez la culasse, et si ce n'est pas un fusil qui s'amorce de lui-même mettez-y la capsule, et avec un peu de pratique tout cela peut se faire en quelques secondes.

L'Inventeur se propose d'accorder des conditions avantageuses aux bonnes maisons de commerce qui voudraient entreprendre à leur compte la fabrication de son Fusil Breveté. Pour de plus amples renseignements, s'adresser à M. J. GILBY, BEVERLEY, YORKSHIRE, ANGLETERRE; ou à M. DE FONTAINE MOREAU, 39 RUE DE L'ECHIQUIER, PARIS.

WM. MUIR & CO.,

ENGINEERS, TOOLMAKERS, AND IRONFOUNDERS,

Britannia Works,

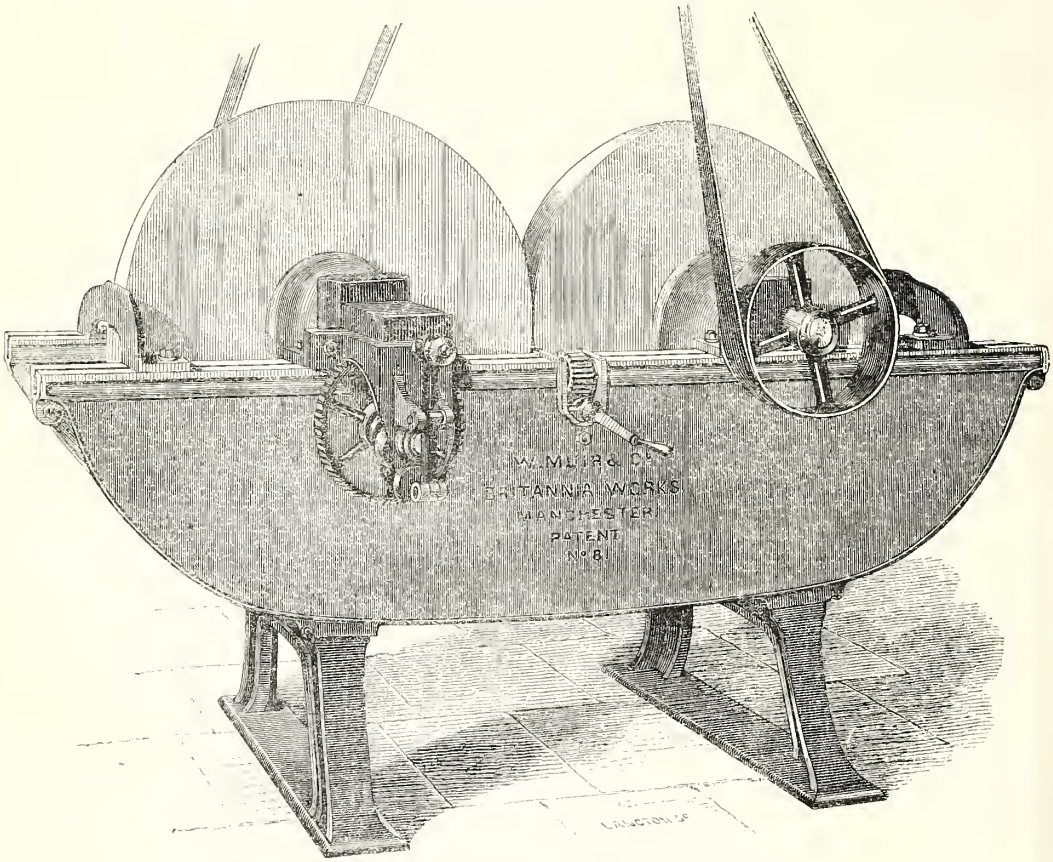
STRANGEWAYS,

MANCHESTER

ESTABLISHED 1842,

RESPECTFULLY beg to intimate to the Public that for the last three years they have been engaged in making an entirely new and improved set of Engineers' Tools, designed and manufactured with great care. They consist of *Foot and Power Lathes* of all sizes for hand-turning, sliding, and screw-cutting, with peculiar improvements, patented by W. M. and Co.; *Self-acting Drilling, Slotting, and Planing Machines; Universal Shaping Machines* to plane circular, round, hollow, and flat surfaces without refixing the article operated upon; *Self-acting Nutshaping Machines* with circular cutters; *Bolt-Screwing Machines and Screwing Tackle.*

The following Illustrations are copies from Photographs:



No. 1. PATENT GRINDSTONES FOR EDGE TOOLS,

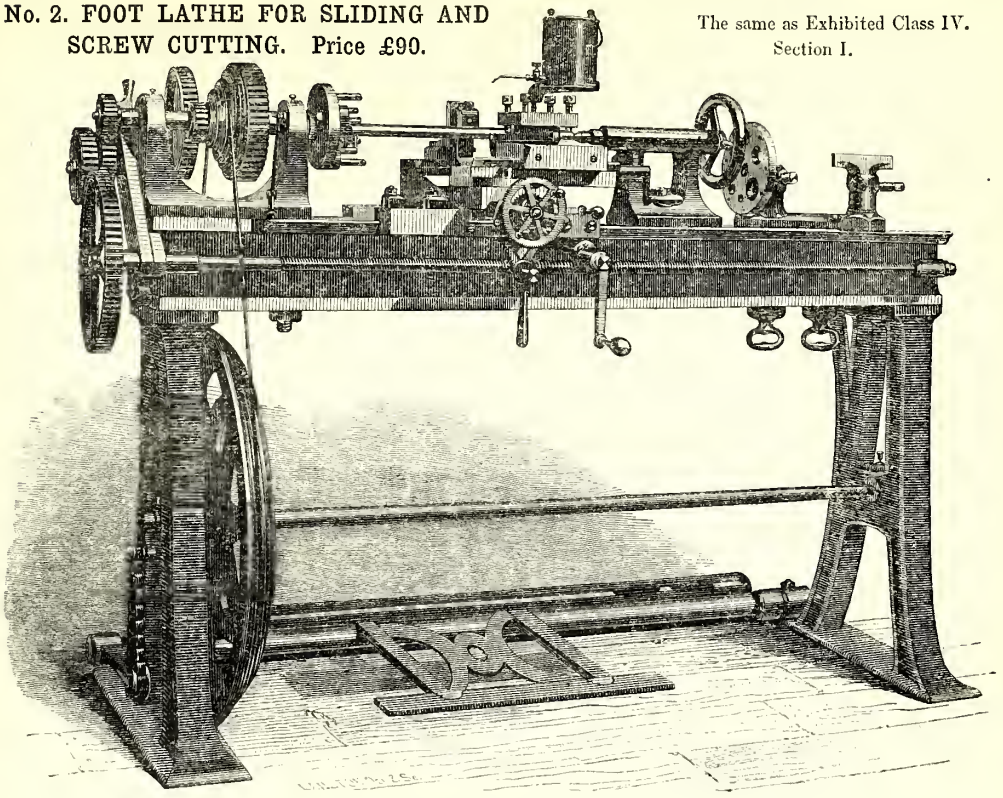
Will be found an invaluable acquisition to Engineers and others in whose Establishments Edge Tools are in constant use. These Stones require no turning or raising; the peripheries touch each other, and, by a lateral motion given to one of them, the Edges are kept perfectly true. Adopted in H.M. Arsenal, Woolwich.

Price, with Driving Apparatus complete, £25.

WM. MUIR AND CO., BRITANNIA WORKS, MANCHESTER.

No. 2. FOOT LATHE FOR SLIDING AND SCREW CUTTING. Price £90.

The same as Exhibited Class IV. Section I.



A PRIZE MEDAL was awarded to WM. MUIR for a Lathe Screwing Tackle and other Tools at the Great Exhibition of 1851.

FOOT LATHES.

No. 1.—5-inch centre Foot Lathe, single speed, 4-ft. bed, four speeds, with band of equal tension; improved crank, anti-friction treadle with chain.

No. 2.—5 or 6-in. centre heavy pattern, 5-ft. bed, double geered, with treadles, &c. as above; also slide rests to suit.

No. 3.—The same Lathe with joiner's bench attached, with nest of drawers to contain full sets of screwing tackle, joiners', wood turners', engineers', and machinists' tools, &c. &c.

No. 4.—6-in. centre Lathe for sliding and screw-cutting, very complete, as exhibited Class VI. Section 6. Price £90.

POWER LATHES.

No. 5.—5-in. single speed Lathe, with conical steel bearings, hand rest, slide rest, and driving apparatus; also with double geer if required.

No. 6.—6-in. single speed, or double geer, as above.

No. 7.—8-in. ,, ,,

No. 8.—10-in. ,, ,,

No. 9.—12-in. 15-in. 18-in. and 24-in. centre, with double geer, used for sliding and screw cutting, on the same plan as patented and exhibited by WM. MUIR & CO.

Any of the foregoing, with break consisting of one bed to slide upon another to any required width, to take in diam. 4 times the height of centre, with chuck or face-plate driven by internal wheel and pinion.

No. 10.—Vertical Drilling Machine, double geered, with driving apparatus complete, to drill up to 4 in., as Exhibited Class VI. Section 6. Price £55.

No. 11. Also single speed on the same plan, to be driven by power, the feeding motion by hand or foot.

No. 12.—Slotting or Key-groving Machine, 6-in. stroke, self-acting, with revolving table and cross slides.

No. 13.—Universal Shaping Machines of 3-in. 6-in. 12-in. and 18-in. stroke to plane detail work; it can be changed to plane round hollow or flat surfaces without refixing the article operated upon.

No. 14.—2-ft Planing Machines, with elliptical wheels, to produce uniform motion for cutting and treble speed in return of the stroke.

Also Planing Machines worked by screw and quick return of the table to any required length and width.

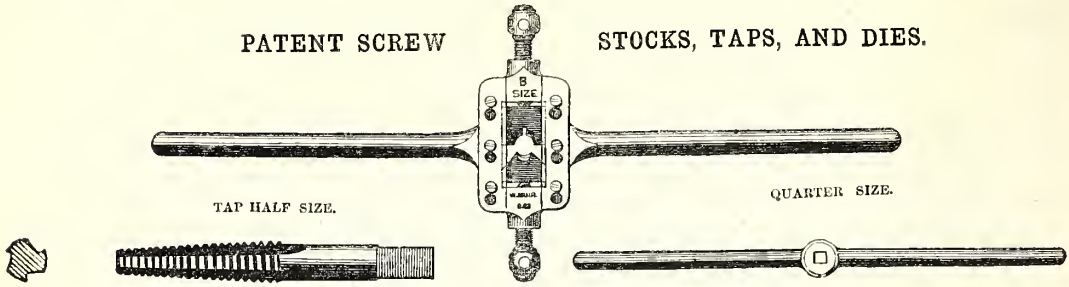
Bolt-screwing Machines, with taps and dies fitted. See List of Prices for Taps, Dies, &c.

Patent Grindstones for Edge Tools, as Exhibited Class VI. Section 6. Price £25 complete.

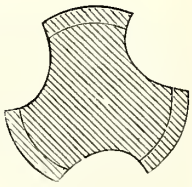
WM. MUIR and CO. have opened a Spacious Show Room at Britannia Buildings, contiguous to their Works, where they keep a large Stock of Tools and other Articles, exclusively their own Manufacture, ready for Sale. Specifications and Estimates forwarded on application (if required, in French, Italian, or German Language).

WM. MUIR AND CO., BRITANNIA WORKS, MANCHESTER.

PATENT SCREW STOCKS, TAPS, AND DIES.



W. MUIR and Co. beg respectfully to call the attention of Engineers, Railway Companies, and the Trade generally, to their Improved SCREW STOCKS, TAPS, DIES, &c., which, from their efficiency and adaptation to the work they have to perform, will bear an advantageous comparison with any other Screwing Tackle that has ever been offered to the Public. The Dies are so formed, that one serves as a guide, and the other as a cutter, which can be sharpened on a Grindstone, as other Edge Tools. The Taps are fluted in a superior form for cutting; the cutting edge is a radial line through Section of Tap, which is found by experience to take about one-third less power than Taps that have hitherto been in use.



SECTION OF INCH TAP.

The following Table shows the number of Threads to the Inch, per standard measure of the realm. The Taps are made to standard Gauges, and the angle of the Thread is 55° for all diameters, rounded at top and bottom; warranted the same as are used in Her Majesty's Dockyards, and at the principal Railway Companies' Engine and Machine Works in the United Kingdom.

Diameter in Inches .	3/16	7/32	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/4	2 1/2	2 3/4	3
No. of Threads to an inch.	24	24	20	18	16	14	12	12	11	10	9	8	7	7	6	6	5	5	4½	4½	4	4	3½	3½
Working Taps, each .	2/	2/	2/	2/6	2/6	3/	3/6	4/	4/	5/	6/	7/	8/0	9/6	11/	13/	15/	17/	20/	23/	29/	36/	44/	53/
Master Taps, each . .	3/	3/	3/	3/6	4/	4/6	5/	5/6	6/	7/	8/6	10/	12/	14/	16/	18/	21/	24/	27/	30/	36/	44/	52/	62/
Machine Taps, each .	..	..	2/6	3/	3/	3/9	4/	4/6	5/6	6/6	8/	9/6	10/6	12/6	14/6	17/6	22/	25/	30/	34/	43/	54/	66/	78/
Gas Taps, each . .	..	..	4/	..	5/	..	6/	..	6/6	7/	..	9/	..	13/	..	17/	..	21/	..	26/	..	..	..	..
Hobs for cutting Screw Tools, each . .	10/		11/	12/	13/	14/	15/		16/	17/	18/	19/	20/		21/		22/6		25/		27/6		30/	
Tap Wrenches, price each	3/	3/6		3/6		3/6	4/	4/9	5/3	6/	7/	8/6		11/9		16/6		20/6		23/6				
Screw Tools for Slide Lathe, price each	2/6		2/6	2/9	2/9	3/0	3/6		3/9	4/	4/3	4/6	5/		5/		5/6		5/6		6/		6/	
Hand Screw Tools, each	1/9		1/9	2/	2/	2/3	2/6		2/9	3/0	3/3	3/6	4/		4/		4/6		4/6		5/		5/	

Price of Dies, per set. . | To fit **A** size Stock, 3/6. | To fit **B** size Stock, 5/6. | To fit **C** size Stock, 8/. | To fit **D** size Stock, 12/6. | To fit **E** size Stock, 17/6.

Guide Screws, Taps, &c. &c., for any Specific Purpose, Made to Order.

The following List of Stocks, Taps, Dies, and Wrenches,

Is complete for the Ranges Specified, and can be ordered with or without the Second, Plug, and Master Taps; and in ordering complete Sets of all Sizes, the Duplicate Sizes may be kept out as follows:— **A** size, 3/16 to 1/4; **B** size, 5/16 to 1/2; **C** size, 9/16 to 7/8; **D** size, 1 in. to 1 3/8 in.; **E** size, 1 1/2 in. to 2 in.; as specified in Table as under:—

No. 1 Set, 3/16 to 5/16.

	£.	s.	d.	£.	s.	d.
A size Screw Stock	1	15	0			
4 Sets Dies, 3/16 to 5/16, at 3/6 . .	0	14	0			
4 Taper Taps	0	8	6			
3 Tap Wrenches	0	10	0			
Box lined, with Lock and Key .	0	8	6			
				3	16	0
4 2nd Taps	0	8	6			
4 Plug ditto	0	8	6			
4 Master Taps	0	12	6			
				1	9	6
				5	5	6

No. 2 Set, 1/4 to 5/8.

	£.	s.	d.	£.	s.	d.
B size Screw Stock	2	7	0			
7 Sets of Dies, 1/4 to 5/8, at 5/6 . .	1	18	6			
7 Taper Taps	1	1	6			
6 Tap Wrenches	1	4	6			
Box of Hardwood, with Lock & Key	0	10	6			
				7	2	0
7 2nd Taps	1	1	6			
7 Plug Taps	1	1	6			
7 Master Taps	1	11	6			
				3	14	6
				10	16	6

WM. MUIR AND CO., BRITANNIA WORKS, MANCHESTER.

No. 3 Set, $\frac{1}{2}$ to $\frac{1}{8}$.

	£.	s.	d.	£.	s.	d.
C size Screw Stock	3	5	0			
7 Sets of Dies, $\frac{1}{2}$ to $1\frac{1}{8}$, at 8/	2	16	0			
7 Taper Taps	1	17	6			
6 Tap Wrenches	1	15	6			
Hardwood Box, with Lock and Key	0	15	0			
				10	9	0
7 2nd Taps	1	17	6			
7 Plug Taps	1	17	6			
7 Master Taps	2	14	0			
				6	9	0
				16	18	0

No. 4 Set, 1 to $1\frac{5}{8}$.

	£.	s.	d.	£.	s.	d.
D size Screw Stock	4	17	6			
6 Sets of Dies, 1 to $1\frac{5}{8}$, at 12/6	3	15	0			
6 Taper Taps	3	3	6			
3 Tap Wrenches	1	16	9			
Box of Hardwood, with Lock & Key	1	5	0			
				14	17	9
6 2nd Taps	3	3	6			
6 Plug Taps	3	3	6			
6 Master Taps	4	11	0			
				10	18	0
				25	15	9

No. 5 Set, $1\frac{1}{2}$ to 2.

	£.	s.	d.	£.	s.	d.
E size Screw Stock	6	17	6			
5 Sets of Dies, $1\frac{1}{2}$ to 2, at 16/	4	0	0			
5 Taper Taps	4	8	0			
3 Tap Wrenches	3	0	6			
Box of Hardwood, with Lock & Key	1	10	0			
				19	16	0
5 2nd Taps	4	8	0			
5 Plug Taps	4	8	0			
5 Master Taps	6	0	0			
				14	16	0
				£34	12	0

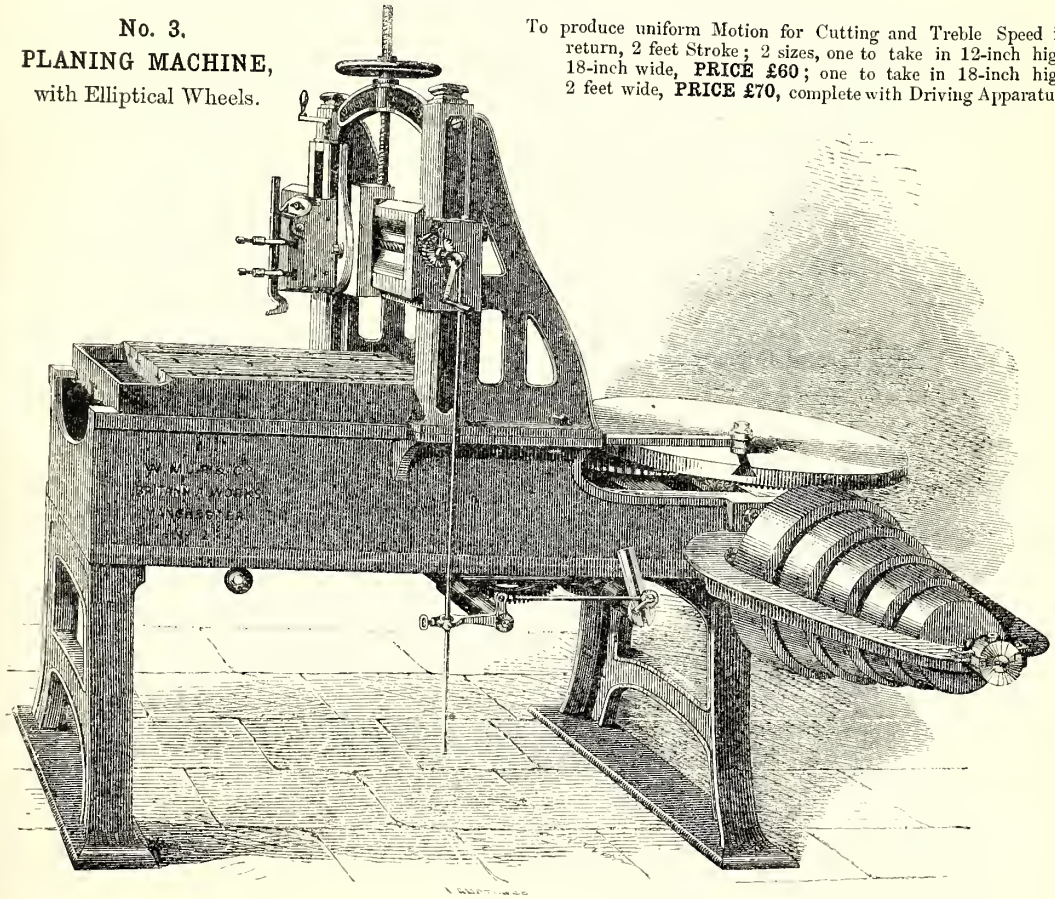
A Complete Set of Screwing Tackle.

	£.	s.	d.
A size Screw Stock, $\frac{3}{16}$ to $\frac{1}{4}$, including 3 Sets of Dies, 12 Taps, 2 Tap Wrenches, Box, lined, with Lock and Key	4	7	6
B size Screw Stock, $\frac{5}{16}$ to $\frac{1}{2}$, including 4 Sets of Dies, 16 Taps, 3 Tap Wrenches, Box, Lock, and Key	7	2	0
C size Screw Stock, $\frac{9}{16}$ to $\frac{7}{8}$, including 4 Sets of Dies, 16 Taps, 4 Tap Wrenches, Box, Lock, and Key	10	19	0
D size Screw Stock, 1 in. to $1\frac{3}{8}$, including 4 Sets of Dies, 16 Taps, 2 Tap Wrenches, Box, Lock, and Key	17	11	3
E size Screw Stock, $1\frac{1}{2}$ to 2 in., including 5 Sets of Dies, 20 Taps, 3 Tap Wrenches, Box, Lock, and Key	34	12	0
	£74	11	9

This as Exhibited Class VI. Section 6.

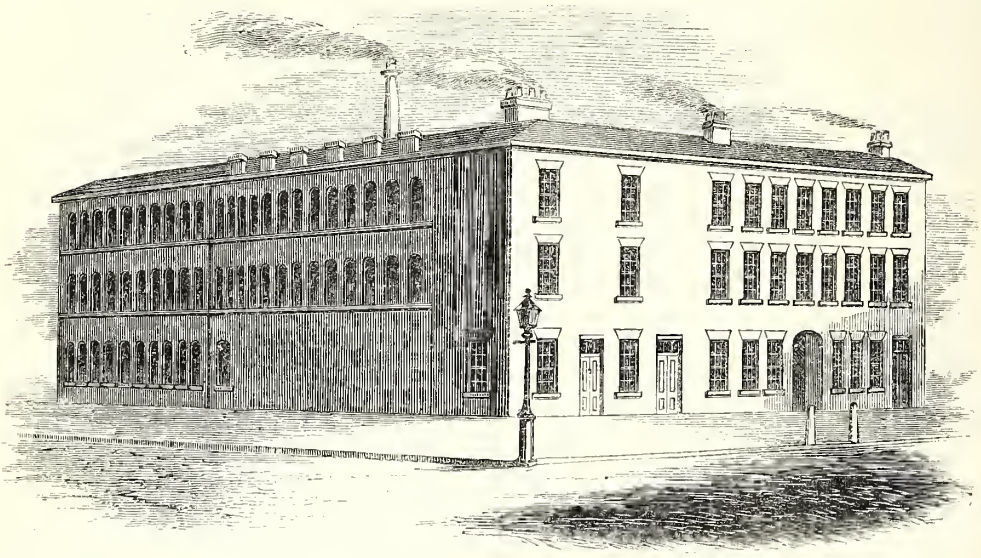
No. 3.
PLANING MACHINE,
with Elliptical Wheels.

To produce uniform Motion for Cutting and Treble Speed in return, 2 feet Stroke; 2 sizes, one to take in 12-inch high 18-inch wide, **PRICE £60**; one to take in 18-inch high 2 feet wide, **PRICE £70,** complete with Driving Apparatus.



Granville Street Works,

BROAD STREET, BIRMINGHAM.



I. H. HOPKINS AND SON,

WHOLESALE

TIN PLATE WORKERS AND JAPANNERS IN GENERAL,

AND MANUFACTURERS OF THE

PATENT TEA AND COFFEE POTS,

And of all descriptions of Culinary and Domestic Articles, made in Block Tin, Tinned Iron, Galvanized Iron, Zinc or Iron Painted and Japanned,

IMPERIAL AND OTHER DISH COVERS,

JAPANNED TOILETTE SERVICES, BATHS IN EVERY VARIETY,

TRAYS WAITERS, COAL VASES, ETC., ETC.,

STAMPED PLATES, PATTY PANS, FANCY PASTE CUTTERS, JELLY MOULDS,

Wrought Iron Kettle Ears, and Furniture of every description for Tinmen's and Braziers' use.

MANUFACTURED BY I. H. HOPKINS AND SON,

GRANVILLE STREET WORKS, BIRMINGHAM.

OFFICER'S

CAMP BOX,

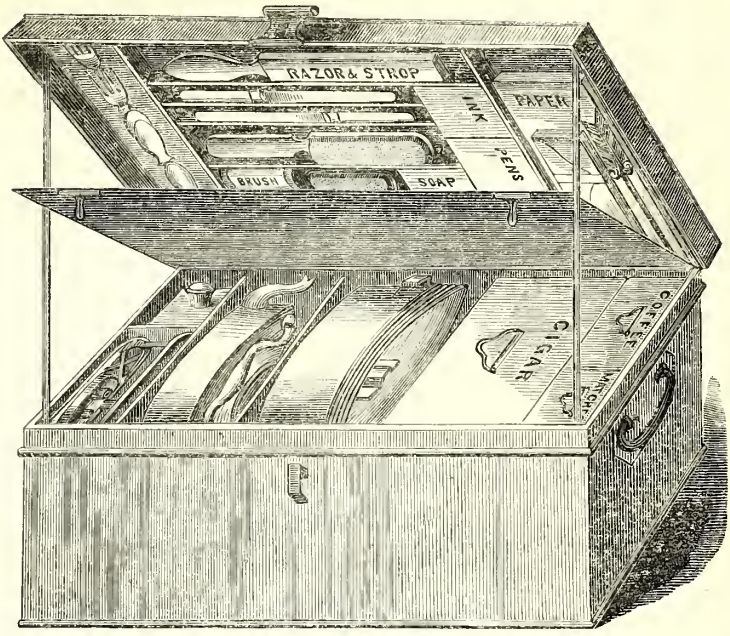
OR

TRAVELLER'S

AND

EMIGRANT'S

COMPANION.



SIZE OF BOX,

Outside Measure, $18\frac{1}{2} \times 9 \times 10\frac{1}{2}$ *inches.*

When Fitted and Complete not exceeding 36 *lbs.*

JAPANNED BLACK AND POLISHED OUTSIDE,

WITH BRASS NAME PLATE ON TOP, SIDE HANDLES, PADLOCK, AND TWO GOOD BLACK LEATHER STRAPS,

BEST BRIGHT BLOCK TIN FURNITURE.

All the different Articles warranted of Best Manufacture.

It contains—

Articles for Cooking and Eating Purposes.

1 Spirit Lamp and Stand
1 Bright Block Tin Spirit Bottle
1 „ „ Tea Kettle, three pints
1 „ „ Saucepan, covered, three pints full
2 „ „ Dinner Plates
2 „ „ Soup Plates
1 „ „ Tea or Coffee Pot, 2 & ½ pints.
1 „ „ Pepper Box.
1 „ „ Salt Box
2 „ „ Drinking Cups
2 „ „ Cups and Saucers
2 „ „ Egg Cups
1 „ „ Mustard Pot
1 Good Frying Pan
2 Ivory Balanced-handle Dinner Knives
2 Electro Plated on Albata Plate Dinner Forks
2 „ „ Dessert Spoons
2 „ „ Tea Spoons
1 Bright Tin Box for Coffee
2 „ Tea
1 „ Sugar
1 „ Matches
1 „ Cigar Case

Articles for Toilette and Writing Purposes.

1 Razor Strop, with Ivory Handled Razor Inside
1 Hair Brush and Comb
1 Nail Brush
1 Tooth Brush
1 Shaving Brush
1 Bright Block Tin Box for Soap
1 Looking Glass
1 Packet Writing Paper, containing 5 quires Satin Note Paper
1 Packet Envelopes, Adhesive
1 Pearl Steel Pen Holder
1 Patent Portable Ink Box
1 Bright Block Tin Box for Steel Pens

I. H. HOPKINS & SON think the Articles enumerated above will be found of the greatest value and importance to Officers, Emigrants, and Tourists, and so many requisites, they venture to think, have not heretofore been placed in so portable a shape.

Price £5 10s. each, net, Complete.

There is a commoner article than the above, made exactly the same size, and containing the same number of useful things, but of second quality, without Straps or Name Plate.

Price £3 15s. each, net, Complete.

There is also a similar article to the above made, containing all the articles in the 1st and 2nd columns, but without the articles in the third column. The outside measure of the Box is $16\frac{1}{2} \times 9 \times 10$ inch, weight when full 28lbs.

Price for best quality with Straps, &c., complete, £4 each, net. Commoner, £2 5s. each, net.

T. WALKER,

Manufacturer of

PATENT SELF-FEEDING STOVES,

ROTARY STEAM ENGINES,

SHIP-LOGS, SOUNDING-MACHINES,

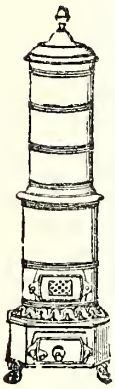
AND

DAMPER-GOVERNORS,

OXFORD STREET, BIRMINGHAM.

THOMAS WALKER'S Patent Self-Feeding Stoves.

1. These admirable STOVES require Fuel but once a day.
2. They show a bright fire.
3. Are free from dust and unpleasant effluvia.
4. Have a great radiating Surface, equally heated.
5. Produce uniform and perfect combustion, and have therefore no explosive gases.
6. Are durable, economical, ornamental, and take up but little room.
7. Are free from danger of fire.
8. And can be used either as an open or close Stove, still supplying itself with Fuel for twelve or eighteen hours together.



No. AND SIZE OF STOVES, &c.					LIST OF PRICES.		COST OF FUEL.		ROOM.
No. of Stove.	Square of Base.	Height of Stove.	Height from the Floor to the centre to the Nozle on which the Pipe sits.	Diameter of Nozle on which the Pipe sits.	Prices Plain.	Prices Ornamental.	Quantity and Cost of Coke (at 21s. per Ton) to keep the Room at about 66 Degrees of Temperature, in Frosty Weather, 12 Hours.		Size of Room in Cubic Feet, which will be kept from 25 to 35 Degrees above the external Temperature. 12 Hours with once filling the Feeder.
0	Inches. ..	Ft. In. 3 3	Ft. In. 2 $4\frac{1}{2}$	Ft. In. 0 $3\frac{1}{4}$	£. s. d. 2 2 0	£. s. d. 2 7 6	Pks. 1	d. 1	L. W. H. Cubic ft. . .
1	$12\frac{1}{2}$	3 9	2 $4\frac{1}{2}$	0 $3\frac{1}{4}$	3 3 0	3 10 0	1	1	12×12×10= 1,440
2	$13\frac{1}{2}$	4 0	2 7	0 $3\frac{3}{4}$	4 4 0	4 14 0	$1\frac{1}{2}$	$1\frac{1}{2}$	15×15×10= 2,250
3	15	4 3	2 9	0 $3\frac{3}{4}$	5 5 0	5 15 0	2	2	20×20×10= 4,000
4	15	4 9	2 11	0 $3\frac{3}{4}$	6 6 0	6 16 0	$2\frac{1}{2}$	$2\frac{1}{2}$	25×25×10= 6,250
5	20	5 6	3 $4\frac{1}{4}$	0 $5\frac{1}{8}$	9 9 0	10 0 0	3	3	30×30×14=12,600
6	26	6 0	3 7	0 $5\frac{5}{8}$	14 14 0	15 15 0	6	6	46×46×16=33,856
7	26	6 9	3 11	0 $5\frac{3}{8}$	16 16 0	18 0 0	8	8	50×50×20=30,000

ROTARY STEAM ENGINES.

Ship Logs for registering the Speed of Vessels and Distance run at Sea.

DEEP SEA SOUNDING MACHINES.

Damper Governors for Steam Boilers, £5 and upwards.

HATTERSLEY ET PARKINSON,

Fabricants de Toiles,

BARNSLEY, YORKSHIRE,

ANGLETERRE.

Toiles pour Draps de Lits	Sheetings.
,, pour Taies d'Oreillers	Pillow-eases.
,, Damassées	Damasks.
,, Ouvrées	Diapers.
,, pour Serviettes pour chambre à coucher.	Huckabacks.
,, pour Serviettes à essuyer les Verres . .	Glass-Cloths.
,, idem idem idem échiquetées .	,, cheeked.
,, pour Serviettes à essuyer les Assiettes .	Plate-Cloths.
,, pour Serviettes à essuyer le Service à Thé	Tea-cloths.
,, pour Cuisiniers	Cook's Cloths.
,, pour Poudings	Pudding-Cloths.
,, à couvrir le Beurre au Marché	Butter-Cloths.
,, pour Essuies-mains	Roller Towels.
,, Croisées pour Épousettes	Twilled Dusters.
,, pour Épousettes à Verres	Glass Dusters.
,, idem idem idem échiquetées .	,, checked.
,, Ecrue pour Blouses et Habits	Hollands.
,, Passoires	Strainers.
,, pour Matelas	Mattress-Stripes.
,, pour Taies de Lit de Plumes	Blue-and-white Linen Bed-Ticks.
,, Coutils	Drills.
,, Damassée pour Escaliers	Stair-Damasks.
,, pour couvrir les Tapis	Crumb-Cloths.

MESSRS. JOHN JAMES FOX AND CO.,

OF

DEVIZES, WILTSHIRE,

WOOL MERCHANTS AND MANUFACTURERS,

Being desirous to contribute to the utility, as well as to the embellishment, of the Paris Universal Exhibition, take advantage of the opportunity afforded by the publication of the Official Catalogue, to lay before the public at large those advantages which have hitherto been chiefly confined to their own immediate neighbourhood. The Cloths which they exhibit (in Class 20, Section 5, Number 2180) are made entirely from Southdown Wool grown in Wiltshire, and form a new feature in the Cloth Manufactures of Great Britain. The finest English Wool has hitherto been considered too coarse and harsh to produce Cloths of the description exhibited; and in fact has been devoted to the ignoble purpose of forming the list or border, the substance of the Cloth being made from Foreign or Colonial Wool. The Great Industrial Exhibition of 1851 induced them to manufacture and place before the public an article which they believed would be useful, cheap, and durable; and four years' trial has proved how well this opinion was founded. The increased and increasing demand for their goods is the best evidence of the satisfaction they have given to the consumer, and indeed the result has proved to be beyond their utmost expectation. They have received numerous testimonials of the value and excellence of their Cloths from all classes, and can therefore recommend them with increased confidence to the public. The following remarks are copied from the "Journal of Design," published in 1851 :—

"Before quitting the English portion of the exhibition of woollen goods, we would direct attention to the specimens of British-grown wool cloths, which have been manufactured by Messrs. John James Fox and Co., of Devizes. The worsted manufactures of Devizes have of late years been in a declining state, and we are therefore glad to see that an effort has been made in that district to produce something for the Exhibition. The intention of the manufacturer, in producing these specimens, has been to show, that by making use of recent improvements in spinning the yarn, cloth of a good appearance and excellent quality can be made from British wool, which has hitherto been considered too coarse, and consequently unfit for the purpose. The advantages which Mr. Fox considers likely to arise from the use of British-grown wool are, that—1st. A benefit would be conferred on the agriculturalist; 2ndly. A more durable article would be produced than that woven from foreign wool: and 3rdly. The price being moderate, it is brought within the reach of all classes. Hitherto these raw materials (British wools) have been employed chiefly in the manufacture of coarse druggets, blankets, and for spinning purposes."

The Manufacturers feel justified in stating that this is a most important result of the Exhibition of 1851, and are confident that the present Exhibition will be equally beneficial, by bringing into more publicity the advantages arising from this and similar improvements.

To be obtained, Wholesale and Retail, at their Establishment,

ST. JOHN STREET, DEVIZES, WILTSHIRE.

LANGDON'S IMPROVED LADY'S SADDLE.

PROVISIONALLY REGISTERED.

9, DUKE STREET, MANCHESTER SQUARE,

LONDON.

DESCRIPTION.

1st. The weight of this Saddle is but 12 lbs. (the ordinary Saddle weighs from 20 to 24 lbs.); and, although so light, it is very strong, the Tree being strengthened in different parts with iron plates, and the greatest care has been taken to insure its solidity, which has been fully and severely tested.

2nd. The form or shape of the Tree, as regards the fitting on the horse's back, is also much improved in order to take a level bearing along the back, and not to pitch in one particular place (as is the case with numbers of Lady's Saddles), thereby causing sore backs: it also prevents its shifting or moving forward out of its position on the back of the horse.

3rd. The seat is made almost flat, which enables the rider to sit with ease and to have a great command over the horse.

4th. The pannel or lining of this Saddle is also improved upon, by its being so made as to admit a current of air to pass freely through between the horse's back and the saddle, thereby preventing the back from becoming overheated (which is so much complained of in the old-fashioned and heavy Saddle).

5th. The fixing-in of the pannel is also an improvement, which admits of its being taken in and out with the greatest ease by the groom, in order to dry it after its being saturated with perspiration, thereby preventing the stuffing from becoming lumpy and hard, which is always the case with fixed pannels, and also to change the pannel if required either thick or thinly stuffed for different shaped Backs.

6th. W. Langdon guarantees Saddles made by him to be of the very Best Materials and Workmanship at very Moderate Fixed Prices.

HUNTING-SADDLES MADE ON THE SAME PRINCIPLE.

N.B.—The PRIZE MEDAL of the GREAT EXHIBITION, Hyde Park, 1851, was awarded to W. LANGDON for Saddlery and Harness.

9, *Duke Street, Manchester Square, London.*

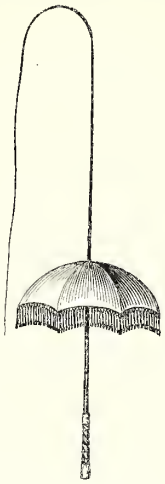
B. ELLAM,

No. 213, PICCADILLY, LONDON,

WHIP MANUFACTURER

AND

GENERAL EXPORTER,



TO THEIR IMPERIAL MAJESTIES

THE EMPEROR & EMPRESS OF FRANCE,

AND HER CATHOLIC MAJESTY

THE QUEEN OF SPAIN.

LIST of some of the Principal **WHIPS** Exhibited by **B. ELLAM** of 213, Piccadilly, London, in Case No. 333.

1. 1 Large silver-gilt chased mounted riding whip with war-chariot and horses on top and the charge at Balaklava round the cap, with tricolour silk handle.
2. 1 Carved ivory handle, silver-chased mounts, Life Guardsman on top and a charge of cavalry round cap
3. 1 White bone braided whip, silver-chased mounts, the Triumph of Britannia and mermaid round collar.
4. 1 Silver-gilt braided whip, large chased silver mounts, stags under trees and stag on top of cap, and tricolour silk handle.
5. 1 Carved ivory handle, silver gilt mounts, fox-hunting (in at the death).
6. 1 Silver-braided whip, long silver-gilt buttons.
7. 1 White bone handled riding-whip, silver-gilt mounts, horse and jockey on top of cap.
8. 1 Ditto, boar-hunting.
9. 1 Silver-gilt braided driving whip, ivory handle, and inlaid gilt wire mountings.
10. 1 Silver-braided driving whip, carved ivory handle, and inlaid silver wire mountings.
11. 1 Twisted ivory handle driving whip, inlaid with gold wire and gold mountings.
12. 1 Ditto, engine-turned gold mountings, and inlaid gold.
13. 1 Ivory handle inlaid gold wire and chased gold mountings.
14. 1 Black bone braided hunting whip, silver gilt, horse racing round horn.
15. 1 Gut-braided ditto, silver horse and hunting round horn.
16. 1 Silver-braided hunting whip, plain silver horn.
17. 1 Holly four-in-hand whip, Russia leather handle and silver-gilt horn, and four-in-hand chased round horn.
18. 1 Silver-gilt braided Chowie whip, gold mountings and white plume.
19. 1 Tortoiseshell driving whip, chased gold mountings.
20. 1 White bone braided driving whip, tortoiseshell handle and gold mountings.
21. 1 Gentleman's riding whip, gold mountings, gold chain and ring, tricolour plume.
22. 1 Lady's riding whip, gold mountings, gold chain and ring, tricolour plume.

Also, see Case No. 333 *in Exhibition, with a variety of Parasol Riding and Driving Whips, also, Hunting, Riding, Driving, Postilion, and every description of Whip.*

For PRICES of the above inquire at Depot, 18, Rue Favart, Paris, of Messrs. Pinchon and Guerin, or of **B. ELLAM**, Manufacturer, 213, Piccadilly, London.

B. ELLAM, WHIP MANUFACTURER.

LIST OF ARTICLES AT REDUCED PRICES, AT THE MANUFACTORY IN LONDON:—

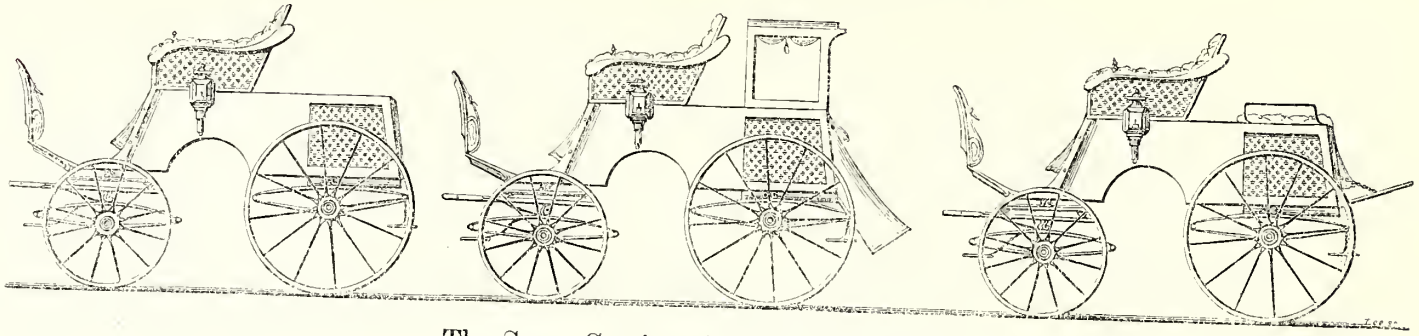
Whips of every description always on hand, from 1*s.* 6*d.* upwards.
Parasol riding and driving whips of all kinds.
Faney and plain Canes of every deseription.
Kerseys of all kinds, at the lowest manufacturing prices.
Prince's Check ditto ditto.
Serges ditto ditto.
Bindings ditto ditto.
Cloth of all qualities and colours for Horse Clothing.
Thread.
Sewing Silks.
Saddles, drawn on or finished.
Somerset ditto ditto.
Racing ditto ditto.
Side saddles ditto ditto.
Exercise ditto ditto.
Saddle Trees of all kinds and improved shapes.
Bits ditto ditto.
Spurs, with single or double studs.
Stirrup Irons.
Webs, ditto.
Blanket Rugs.
Hunting Thongs.
Prepared Gig ditto.
Ditto Jockey ditto.
Sponge.
Horse Brushes.
Water ditto.
Spoke ditto.
Boot Top ditto.
Bone Dankys.
French ditto.
Mail or Tandem Horns.
Hunting ditto.
Patent leather Gig and Carriage Collars.
Patent leather Gig Saddles or Pads.
Patent leather Fronts.
Ditto Canvas ditto.
Dumb Jockeys.
Rack Chains.
Gambados, with feet to protect feet from dirt in riding.
Ditto without feet.
Patent Antigropelos.
Ditto Saddle Cloths, white or blue.
Carriage Nets of all kinds.
Greyhound Slips.
Holster Hunting Bottles and Flasks, silver and plated.
Sets of Harness Furniture, plated, brass, lined or covered.
India Rubber Boots.
Chamois Leathers.
Rosettes, Satin and Whalebone.
Embroidered Letters and Coronets.
Harness in Parts or Complete.
Beddington's Patent Collar Reins.
White Felt in sheets for Saddle Cloths or Water Boots.
Brown ditto ditto.
Hancock's patent flexible Horse Brushes.
Ditto ditto Cloth ditto.
Ditto ditto Hat ditto.
Ditto ditto Hair ditto.
Gut and thread Waggon Whips.
Ditto Cart ditto.
Waterproof Horse Clothing.
Ditto ,, Loin Cloths.
Ditto ,, Carriage Aprons.
Ditto Gentlemen's Leggings all sizes.
Ditto ditto Coats and Capes.
Ditto ditto Caps.
Ditto Cloth for all purposes.
Bengough's Improved Portmanteaus.

As a convincing proof of the superior quality of B. E.'s Whips, see paragraph on Whips made for the Emperor and Empress of France, Era, Feb. 11th, 1853; Daily News, Feb. 12th; Globe, Feb. 14; Morning Advertiser, Feb. 17; Sunday Times, Bell's Life, and the Illustrated London News, Feb. 18th; also the Atlas, and most of the leading Journals.

Terms—Five per cent. off for Cash, or six months' net.

Agent for Major's Lotion, also for Stevens' Blister Ointment, and Horse Medicines, &c.

STAREY'S COTTAGE PHAETON.



The Same Carriage in its Three Forms.

DESCRIPTION.

THESE Sketches represent the three forms in which THE COTTAGE PHAETON can be used; viz., the SINGLE-BODIED PHAETON, to hold two persons; the DOUBLE-SEATED PHAETON, to hold four, without head; and the HEADED CARRIAGE. Nothing is *added* to the first to make the other two; they simply open out from the first. The chief characteristic of this carriage is its simplicity, lightness of draught, and freedom from liability of derangement; for there is *nothing complicated* about it. Different from all others, *the head is entirely concealed* when not required, but *instantly* available, with Italian light or curtain (forming a close carriage), when wanted. Greater economy in original cost and subsequent repairs; more accommodation; greater facility of access for ladies; with much less weight—are the advantages of this novel principle in construction.

The above is but one of a *great variety of shapes and sizes* in which it is built. It is constructed to suit one, a pair, or four horses, and has hitherto met with distinguished approval, being considered as a great advance on the old-fashioned, ugly leather head, with its weight and complicated arrangements.

The greatest care is taken in the manufacture, every part being done on the premises, none but the best materials and workmen employed, with the latest improved machinery and steam power. In order to render the carriage "silent," and free from the "jar" hitherto considered as belonging to "elliptic-spring" carriages, "India rubber" bearings are introduced wherever practicable, which entirely obviates this disagreeable effect.

Every shape and size, from the "two-wheel" and "four-wheel dog-cart" to the four-horse carriage, can be built on this principle; and the head can be used in addition to the ordinary head in front, when four persons require to be under cover.

Detailed Estimates given as to cost, &c., by the builder; and specimens of the construction and style of work to be seen at the UNIVERSAL EXHIBITION, PARIS, No. 405, British Section, and the CRYSTAL PALACE, SYDENHAM.

Price of the above in the very best style of workmanship, to choice of colours in painting and lining, from 85 Guineas. If with Patent Screw Break, 5 Guineas extra.

Every description of MODERN CARRIAGES, comprising various styles of *Clarences, Broughams, Barouches, Sociables, Drags, Breaks, Phaetons, Cars, Sporting Waggons, Dog Carts, Whitechapels,* and *Rough Carts* for exportation to the Colonies.

Improved CONCEALED *Self-acting Brougham Steps.* "India-rubber Bearings" for "Elliptic Spring" Carriages, by which the disagreeable jar from the road is avoided. Starey's Patent "Screw Break."

Every description of Harness, both plain and best, for single, pair, or four horses. Brass, silver, or covered Furniture, &c., and Dealer in everything connected with Carriage Making.

Agent in Paris, Mr. SPIERS, Rue de la Paix.

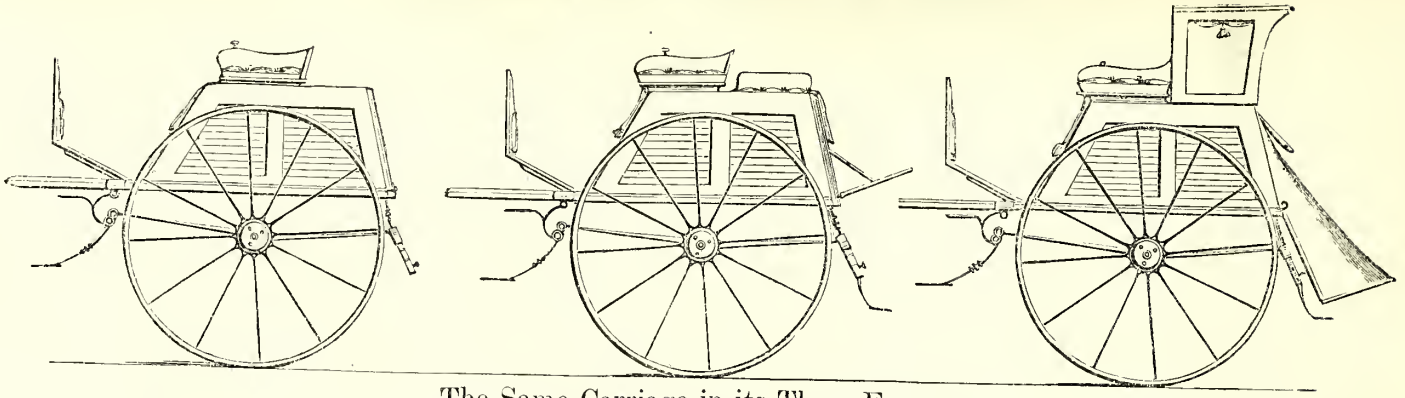
T. R. STAREY,

Carriage Manufacturer with the Aid of Steam Power and Newly Invented Machinery,

NOTTINGHAM.

ESTABLISHED 1786.

STAREY'S COTTAGE DOG CART.



The Same Carriage in its Three Forms.

DESCRIPTION.

"THIS improved road Carriage, built by *Starey* of *Nottingham*, is hung upon the improved Fulcrum principle, by which the trotting motion of the horse is wholly absorbed, and knee action avoided. The Carriage weighs about 4 cwt. or the usual weight of a Gig. It can be used as a 'Stanhope' for '*business*' purposes, as a 'Dog Cart' for '*sporting*,' and as a 'Headed Carriage' for '*domestic*' use. In the latter case, by an instant change, the Vehicle becomes a Headed Carriage with apron and curtains complete, exceedingly safe for ladies' use, and more commodious than the ordinary run of beaded Phaetons, as the rider sits back to the wind. By a very simple contrivance the carriage is perfectly *balanced* in all its forms."—From *The Illustrated London News* of May 28, 1853, with Engravings. See also *The Art Journal* for February, 1854.

The last two forms are included in the first, nothing is *added* to the first to form them; they simply *open out* by an instantaneous movement, and when open are *firm* and *substantial*. The body is roomy, and there is ample space for two dogs or luggage in the front part. The above are made by experienced London workmen, on various heights of wheels, the usual height being 4ft. 8in. They are hung on the Fulcrum principle of Shafts with adjusting irons at the back, to raise or lower the points to suit different sized horses, and the balance is regulated by a *simple instantaneous movement*. The Shafts are of the very best Lancewood, not pierced the entire length by a bolt, the connections being formed by light bands of iron, shrunk on the same as the tyre of a wheel, by which means water is effectually prevented from being absorbed by the wood and causing decay. On this principle the Carriage is quite free from knee motion, and rolls along as evenly as a billiard ball. The greatest care is taken in their construction, every part being done on the premises with the aid of steam-power, none but the very best materials being used, and no effort spared to produce as nearly as possible a perfect piece of workmanship.

The Prices are as follow, delivered at the Nottingham Station.

"THE COTTAGE DOG CART," fitted up in first-rate style to form Two Carriages, as Sketches No. 1 and No. 3, without Aprons or Curtain, to choice of colours in painting and trimming	48 GUINEAS.
DITTO, with best Enamelled Leather Aprons front and back, and Curtain	53 GUINEAS.
DITTO, to form the Three Carriages, with Aprons and Curtain, with Game Pocket complete	58 GUINEAS.

Lamps and Fixtures, 50*s.* extra. Crests, 5*s.* each.

T. R. STAREY is the Inventor also of the following Carriages—THE IMPROVED GIG, built on the principle of "Non-Resistance," which has all the strength of the ordinary Gig with but half its weight, for by its *elastic* construction it yields to, instead of resisting, the shocks it meets with. A willow tree in nature and a cricketer catching a ball act on this principle. Built to choice of colours, 42 Guineas.

THE DUOBUS, a new medical cheap, close, Carriage, having all the comfort and convenience of a Brougham with the weight of the ordinary Gig. Built to choice of colours, 42 Guineas.

Improved Shapes in BASKET CARRIAGES, the better ones having the framings of iron, for strength and durability. From 10 Guineas each.

Agent in Paris, Mr. SPIERS, Rue de la Paix.

The above are Exhibited at the New Crystal Palace, Sydenham, and Manufactured by

T. R. STAREY, COACHMAKER, NOTTINGHAM.

UNDER THE PATRONAGE OF THE NOBILITY AND GENTLEMEN OF THE DUKE OF RUTLAND'S HUNT.

PRICE CURRENT

OF

SADDLES, BRIDLES, BREASTPLATES, HORSE-CLOTHING,

KNEE AND ANKLE BOOTS,

AND EVERY REQUISITE FOR A HUNTING ESTABLISHMENT. ALSO,

HARNESS OF ALL KINDS,

MANUFACTURED BY

THOMAS WHITE, SLEAFORD, LINCOLNSHIRE.

	£.	s.	d.
The same as Samples Exhibited in Stand 1690. Best Quilted Sidesaddles, with Leaping-head and all real Improvements	10	10	0
Best plain do., all over Hogskin	8	8	0
Best do., Quilted, safe	7	0	0
Best Hunting Saddles, light or dark colour, complete	5	5	0
Best do. do. do. Park Saddles	5	5	0
Steeple Chase or Racing Saddles, to any weight from 2½ lb.	5	5	0
Best Weymouth, or Double Bridle	1	5	0
Best Snaffle Bridles	0	16	0
Best Hunting Breastplates	0	16	0
Best Horse Clothing to any pattern, with Saddle Cloth, Knee and Ankle Boots, Roller, &c., complete, for Hunting or Racing, made the same as those exhibited in Stand 1690	5	5	0
Best Silver-mounted Pair Horse Harness	27	0	0
Crests, each, extra	0	5	0
Best Brass-mounted Pair Horse Harness	18	0	0
Best Silver-mounted Single Harness, friction parts hard plate	10	10	0
Second quality, Silver-mounted do.	8	8	0
Do., with small Buckles covd., friction parts silver	8	15	0
Do. do. do. frietion parts brass	7	10	0
Second Quality, Brass	6	10	0

The Proprietor, in submitting the above List to the Public, begs to observe that the whole are of

FIRST-CLASS WORKMANSHIP,

AND

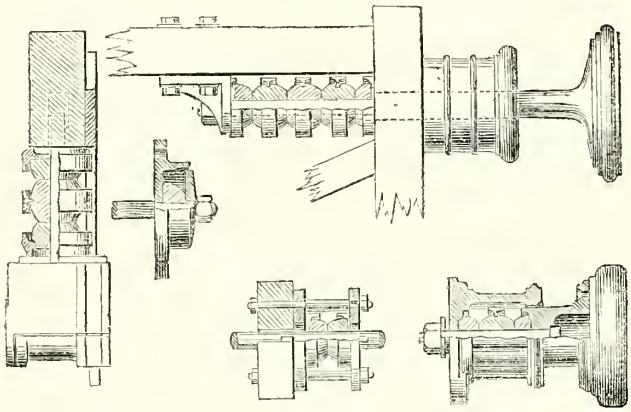
MADE OF THE BEST MATERIAL.

George Spencer's Patent Conical India Rubber Springs, for Railway and other Carriages,

MANUFACTURED BY

GEORGE SPENCER & CO.,

6, CANNON STREET WEST, LONDON.



GENERAL AGENT ON THE CONTINENT,

ROBERT STOTHERT KIRKPATRICK, ESQ., C.E.,

No. 11, RUE MARTEL, PARIS.

SUB-AGENTS IN BELGIUM,

Messrs. GOSSIAUX FRERES, 34, RUE DU MARCHÉ, BRUSSELS.

The advantages of this new form of India Rubber Springs over the usual Steel Springs are,

1st. Perfect immunity from the danger consequent on breakage.

2nd. Extreme lightness, the weight being only one-third of the Steel Springs.

3rd. Great saving in first cost.

4th. Durability.

The essential difference between this form of India Rubber Springs, and all those hitherto used or proposed, consists in the conical form of the material, and in the use of confining rings which limit the action of the Spring and increase its power by lateral confinement.

These Springs are now being extensively adopted on the English and Foreign Railways, as Passenger, Waggon, Truck, and Engine Buffer Springs, as Bearing Springs for Engines, Passenger Carriages, and Trucks, and also as Draw Springs for the same. They have been fully tested and approved of by most of the principal Engineers and Manufacturers, and many testimonials have been received of their complete efficiency.

George Spencer and Co. are prepared to supply Springs of the above description, made of the best material, or to modify them in any way, to suit peculiar cases. Estimates will be promptly furnished.

CYRUS & JAMES CLARK,

STREET, NEAR GLASTONBURY, SOMERSETSHIRE, ENGLAND,

Patentees

OF THE

ELONGATING GUTTA PERCHA GOLOSH,

FOR WHICH THEY RECEIVED THE PRIZE MEDAL AT THE UNIVERSAL EXHIBITION, 1851,

AND MANUFACTURERS OF

LADIES', GENTLEMEN'S, AND CHILDREN'S

DRESS BOOTS, SHOES, AND SLIPPERS.

Gentlemen's.

Dress Albert Boots.
Exhibition Alberts.
Spring-front Oxonians.
Prussian Albert Boots.
Patent Calf Dress Shoes.
Leopard Golosh Slippers.
Fancy Hair Calf ditto.
Registered Dress Shoes.
Angora Plush Slippers.
Patent Seal House Slippers.
Margate ditto.
Petersburgh ditto.
Roan ditto.
Brown Wool-lined Slippers, 3*s*.
York Albert Slippers.
Youths' Dress Shoes.

Ladies'.

Swiss Shoes.
Jenny Lind Shoes.
Enamelled Seal, Morocco, and Patent Calf House, Dress, and Walking Shoes.
Registered Victoria Boots.
Ditto Mitre ditto.
Cashmere and Kid Boots.
Cloth Wool-lined Boots.
Registered Mitre Shoes.
Angora Plush Slippers.
White Kid Dress Operas.
White and Black Satin Shoes.
Coloured Kid Opera Boots.
One-seam Dress Shoes.
Coloured Dressing-Slippers.
Wool-lined Slippers.

Girls' and Children's.

Patent Ankle-straps, Seats, and Sew-rounds, 14*s*. to 36*s*.
Ditto Welts.
Chamois Seal Welts.
Coloured Patent Ankles.
Kid and Morocco ditto.
Cloth Welt Boots.
Cashmere Channel Boots.
Kid ditto.
Registered Mitre Shoes.
Coloured Alpine Kid Straps.
Red and Drab Morocco.
Coloured Boots.
White Kid Dress Shoes.
Leather Spring-front Shoes.
Bronze Straps.
Bronze Dress Operas.

And every other Variety of Ladies' and Children's Goods.

The Patent Elongating Gutta Percha Golosh is the lightest manufactured, is easy on the Foot, Waterproof, and holds on well, without confining the perspiration of the Foot.

Ladies and Gentlemen's Cork, Skin, Horsehair, and Gutta Percha Socks.

Cork, 4*s*. and 5*s*. per doz.; Lambskin, 4*s*. 6*d*. and 5*s*. 6*d*.; Lambskin, with patent backs, 5*s*. 6*d*. and 6*s*. 6*d*.; Gutta Percha covered Lamb, 6*s*. and 7*s*.; Cork covered Lamb, 6*s*. and 7*s*.; Horsehair, 6*s*. and 7*s*.; Mocassin Socks, 8*s*. 6*d*.

CYRUS & JAMES CLARK,

STREET, NEAR GLASTONBURY, SOMERSETSHIRE, ENGLAND,

Manufacturers

OF

ANGORA GOAT AND SHEEPSKIN HEARTH, DOOR, TOILET, AND CARRIAGE RUGS,

FOR WHICH THEY WERE AWARDED THE

PRIZE MEDAL AT THE

GREAT EXHIBITION,

LONDON, 1851.

The Angora or Asiatic Goatskins are much admired for their beauty, and strongly recommended for their durability.

HEARTH RUGS

Are made of these skins at from 25*s.* to 84*s.*, sizes from 5 ft. 6 in. by 2 ft. to 7 ft. by 3 ft., the prices depending more on the length and quality of the Hair than the size of the Skin.

White, very splendid, and, when cleaned or dyed, look better than new.

Crimson, very rich and warm, the colour warranted fast.

White or Fawn Centres make up very handsomely with Blue, Green, Orange, or Lavender Borders.

Bordered Window, Toilet, or Carriage Rugs, any Size, Colour, or Pattern.

Angora Toilet or Window Rugs, of any Colour, 3 ft. by 12 or 14 inches, at prices varying from 4*s.* to 10*s.*, according to the length and quality of the Hair.

Angora Carriage, Window, or Door Rugs, from 10*s.* to 30*s.*

Panther, Lion, Tiger, or Leopard Skins dressed and manufactured into Hearth Rugs.

Toilet or Bed-room Rugs, short Wooled Centres, with Angora Borders, 3*s.* to 6*s.*

SHEEPSKIN

Hearth, Window, or Door Rugs, made of any size, colour, or quality. Browns of any shade, White, Fawn, Orange, Green, Blue, Black, Yellow, and Crimson, perfectly fast colour, and Golden Crimson very splendid, having a Gold ground with a rich Crimson top.

NUMBERS AND PRICES OF SHEEPSKIN DOOR AND CARRIAGE RUGS.

X	O	1	1½	2	3	3½	4	4½	5	5½	6	7	8	9	10	Extra.	Sr. Ex.	Sr. Sr. Ex.
1/6	2/	2/6	3/	3/6	4/	4/6	5/	5/6	6/	6/6	7/	8/	9/	10/	11/	12/	14/	16/

N.B.— The Size of any Number depends entirely on the Length and Quality of the Wool.

Tanned and White Mops of Various Qualities.

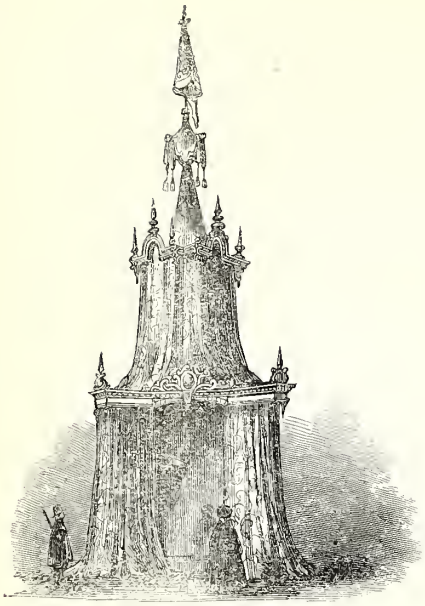
CHAMOIS SKINS.

No.	2	3	4	5	6	7	8	9
	4/6	6/	7/	8/6	10/	13/	17/	20/.

HOUSEMAIDS', HEDGING, AND HARVEST GLOVES.

Carriage Baskets or Foot Muffs, lined with Wool and covered with Roan or Morocco, 7*s.* 6*d.* *to* 20*s.*

A LIBERAL DISCOUNT ON THE ABOVE PRICES FOR CASH.



SILK TROPHY.
GREAT EXHIBITION, 1851.

LIST OF GOODS

MANUFACTURED BY

MESSRS. KEITH & CO.,

124, WOOD STREET,

CORNER OF GOLDSMITH STREET, CHEAPSIDE,

LONDON.

Plain Tabarets, 21 inches wide, in all colours. Prices according to quality, from 1*s.* 6*d.* to 3*s.*

Plain Tabarets, 27 inches wide, in all colours. Prices according to quality, from 2*s.* to 5*s.*

Striped Tabarets, 21 inches wide, in all colours. Prices according to quality, from 2*s.* to 4*s.*

Striped Tabarets, 27 inches wide, in all colours. Prices according to quality, 3*s.* 6*d.* to 5*s.*

Figured and Striped Tabarets, 21 inches wide, in all colours. Prices according to quality, 3*s.* 6*d.* to 6*s.*

Figured and Striped Tabarets, 27 inches wide, in all colours. Prices according to quality, 5*s.* to 8*s.*

Satins, Incle (or linen back), 21 inches wide, in all colours. Prices according to quality, 3*s.* 6*d.* to 5*s.*

Satins, Incle (or linen back), 21 inches wide, in all colours. Prices according to quality, 5*s.* to 7*s.* 6*d.*

Damasks, Silk and Worsted, 21 inches wide, in all colours. Prices according to quality, from 5*s.* to 6*s.* 6*d.*

Damasks, Silk and Worsted, 30 inches wide, in all colours. Prices according to quality, from 7*s.* to 10*s.*

Damasks, all Silk, 21 inches wide, in all colours. Prices according to quality, from 5*s.* to 10*s.*

Damasks, all Silk, 30 inches wide, in all colours. Prices according to quality, 6*s.* 6*d.* to 12*s.*

Brocatelles, two colours, 21 inches wide, in all colours. Prices according to quality, 6*s.* 6*d.* to 10*s.* 6*d.*

Brocatelles, three colours, 21 inches wide, in all colours. Prices according to quality, 9*s.* to 15*s.*

Brocatelles, two colours, 30 inches wide, in all colours. Prices according to quality, 12*s.* 6*d.* to 18*s.*

Brocatelles, three colours, 30 inches wide, in all colours. Prices according to quality, 18*s.* to 25*s.*

Brocatelles, in two and three colours, made wide for Portières, 40, 50, 60, and 70 inches wide. Prices according to width and quality.

Tissues, two colours, 21 inches wide, in all colours. Prices according to quality, from 9*s.* to 12*s.*

Tissues, three colours, 21 inches wide, in all colours. Prices according to quality, 12*s.* 6*d.* to 18*s.* 6*d.*

Tissues, two colours, 30 inches wide, in all colours. Prices according to quality, 15*s.* to 25*s.*

Tissues, three colours, 30 inches wide, in all colours. Prices according to quality, 18*s.* 6*d.* to 30*s.*

Tissues, in two and three colours, 40, 50, 60, and 70 inches wide. Prices according to colours and quality.

Brocades, 21 inches wide. Prices according to colours and quality.

Brocades, 30 inches wide. Prices according to colours and quality.

Brocades, 36, 40, 50, 60, and 70 inches. Prices according to colours and quality,

Carriage Linings, Plain, 21 inches, all colours. Prices from 3*s.* to 4*s.*

Carriage Linings, Plain, 27 inches, all colours. Prices from 5*s.* to 7*s.*

Carriage Linings, Plain, 50 inches, all colours. Prices from 10*s.* to 12*s.*

Carriage Linings, Figured, 21 inches, all colours. Prices from 4*s.* to 5*s.*

Carriage Linings, Figured, 27 inches, all colours. Prices from 6*s.* to 8*s.*

Carriage Linings, Figured, 50 inches, all colours. Prices from 12*s.* to 16*s.*

Carriage Blinds, Plain, all colours. Prices from 4*s.* to 6*s.*

Diaphane Carriage Blinds, all colours. Prices according to extent of pattern, varying from 5*s.* to 20*s.*

Diaphane Window Blinds, all widths, up to 80 inches.

Silk Velvets, 20 inches wide, all colours. Prices according to quality, from 4*s.* to 10*s.*

Genoa Silk Velvets, 20 inches wide, all colours. Prices according to quality, from 12*s.* to 21*s.*

Genoa Silk Velvets, 24 inches wide, all colours. Prices according to quality, from 16*s.* to 27*s.*

Utrecht Velvets, 22 inches wide, Plain, all colours, from 3*s.* 6*d.* to 8*s.*

Utrecht Velvets, 24 inches wide, Figured, all colours, from 4*s.* to 10*s.*

WILLIAMS, COOPERS, & CO.,

Wholesale Stationers and Paper-Hanging Manufacturers,

85, WEST SMITHFIELD,

LONDON.

PAPER-HANGINGS.

Williams, Coopers, and Co. have pleasure to inform their Continental as well as English Friends, that they have always on hand a large Stock of Paper-Hangings to accommodate Wholesale Dealers and Shippers.

			s.	*d.*	
Attic Papers,	12 yards long by	21 inches wide, from	0	4	per piece, and upwards.
Bedroom	ditto	ditto	0	6	,,
Satins	ditto	ditto	1	2	,,
Flock	ditto	ditto	2	0	,,
Gold	ditto	ditto	4	0	,,

They have also a large variety of handsome Patterns and Decorations, designed by some of the most eminent British and Foreign Artists for First-class Rooms, in the Alhambra, Pompeiian, Renaissance, and other Styles, to which they invite the attention of the Public.

Their best Gold Papers have been celebrated for their durability and excellence for many years.

Specimens of different qualities of Paper-hangings manufactured by Williams, Coopers, and Co. may be seen at the Paris Universal Exhibition.

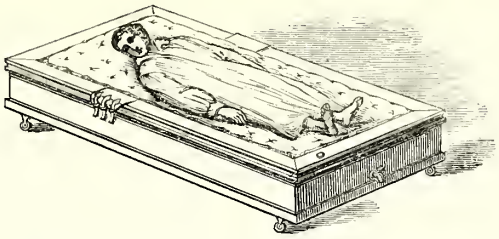
STATIONERY.

All descriptions of Drawing, Writing, Printing, and Packing Papers and Account Books manufactured.

Sole Agents for Jackson's Writing and Copying Inks, and the Concentrated Fluid Ink, for Exportation.

Wholesale Dealers and Shippers supplied with promptness, on the best terms.

DR. ARNOTT'S WATER BED OR FLOATING MATTRESS.



MANUFACTURED, UNDER THE DIRECTION OF DR. ARNOTT,

BY

SMITH & SON,

253, TOTTENHAM COURT ROAD, LONDON.

These Beds prove by experience to be such a real blessing to humanity that Messrs. SMITH and SON feel great pleasure in assisting to make known an improvement of such importance to the healing art.

The effect of the use of a Water Bed is in giving that continual ease and rest to a Patient which is not had in the softest Feather Bed, that becoming hard in a few hours, but this, being composed of Water, is always the same, giving equal support to every part of the body (resting on a hair mattress, which floats on the Water), instead of its being supported by the hips and shoulders, as in a common Bed, the consequence of which is that all Sloughs or Bed Sores are avoided: these, in many cases of illness, prevent the Patient having that rest which is needful, and cause Fever or such constitutional irritation as much to retard the cure of the original disease, and not unfrequently produces a fatal termination.

Messrs. SMITH and SON, having supplied many of the Nobility and Gentry (by the recommendation of the Medical profession), likewise most of the London and Country Hospitals and Government Institutions, can speak from 22 Years' experience of the great comfort afforded by their use to suffering Invalids.

Price of a Water Bed with Mattress and loose sheet of India-rubber cloth £9 10s.

Hire of ditto, 2 Guineas the First Month, and 30s. per Month afterwards.

To Soluble Cocoa Drinkers, use Fry's Hexagon Packets.

PRIZE MEDAL

AWARDED TO

J. S. FRY & SONS,

By the Jury, Class III., of the Great Exhibition, London, 1851, and at New York, 1853.

"*By virtue of the power to me given, I hereby appoint* JOSEPH STORRS FRY, *of Bristol, to the place of manufacturer and purveyor of Chocolate and Cocoa to* HER MAJESTY *in ordinary.*

"*He is to have and enjoy all the rights, profits, privileges, and advantages to the said place belonging, during my will and pleasure.*

"*Given under my hand this 12th day of February*, 1851, *in the 14th year of Her Majesty's reign.*

"WESTMINSTER."

It is well known by the Public that we have manufactured Chocolates and Cocoas in great variety, for a long series of years. The great attention bestowed by us on these preparations has been fully appreciated; and we take the present opportunity gratefully to thank the ROYAL FAMILY, and those NOBLEMEN, Gentlemen, Ladies, and the Public who have patronized our various articles.

This success has arisen from our constant care to manufacture every variety best of its kind.

From the year 1728, when our manufactory was established, until 1822, CHURCHMAN'S PATENT and other CAKE CHOCOLATES, and FRY'S PATENT COCOA, were chiefly used.

FRY'S CHOCOLATE POWDER, CHOCOLATE or COCOA PASTE, SOLUBLE CHOCOLATE, and BROMA, all of which are soluble, by the addition of boiling water, and require neither boiling nor milling, have subsequently been much used.

These elegant preparations have invariably maintained the same high character for superiority of quality and fineness of flavour which our CAKE CHOCOLATES and PATENT COCOA have ever possessed.

FRY and SONS' GRANULATED and DIETETIC COCOAS, which are both equally soluble, have of late years been favourites with the public; they are light, nutritious, and delicate articles—to Invalids invaluable.

Our SOLUBLE COCOA has also obtained a very extensive consumption, its moderate price rendering it attainable by all classes for every-day use, thus enabling even the labouring man to enjoy the delicious fruit of the Theobroma Cocoa, which for many years was regarded as an article of luxury. This Cocoa, in Green and Gold or in Hexagon Packets, will be found of excellent quality.

Our HOMŒOPATHIC COCOA has been highly approved and recommended by Homœopathic practitioners, and consequently acquired an extensive consumption amongst their patients, and the public at large, as one of the most light and delicate preparations known.

J. S. FRY and SONS' name on the label of their COCOA NIBS will warrant them perfectly genuine.

FRY'S PATENT COCOA possesses a full flavour.

At the present time a call for the well-known cake chocolate, though in a somewhat altered form, is made upon us. We answer the call; and offer to the public several new varieties of FRENCH CHOCOLATES, prepared according to principles alike dictated by our ample experience and the results of the most

refined foreign taste, carried out by the utmost care and skill in their manufacture. We confidently recommend these Chocolates, as eminently combining that richness and delicacy of flavour with that *peculiar softness* on the palate which is rarely to be met with; together with those remarkably salubrious qualities which are essential to chocolate in all its forms.

CHOCOLATE of our manufacture is free from all noxious ingredients; the inferior portions of the nut are carefully excluded, and it contains, in the most concentrated and agreeable form, all the virtues which are so justly attributed to the pure vegetable product of the Cocoa Tree; is a fine stomachic, producing a healthy action on the biliary secretions, and a fine and clear complexion. So well are our Parisian neighbours aware of these facts, that CHOCOLATE is with them a leading article of consumption. To taste this delicious beverage in perfection, it is only needful to buy our Chocolat à la Française, attend to the directions enclosed in each package, and obtain our improved pot, manufactured by Barber and Groom, Union Court, Holborn Hill, London, which may be ordered from any Grocer or Ironmonger.

FRY'S CHOCOLATE PASTILLES, CHOCOLAT DE VOYAGE, and other BON BONS, are strongly recommended as delicious and nutritious condiments for the railway carriage, the nursery, the invalid chamber, or the luncheon table. These French Chocolates are used at the ROYAL TABLE, by the first NOBILITY, and are particularly adapted for Presents.

Our Chocolate having been used by the ROYAL FAMILY for more than one hundred years, the appointment of manufacturers of Chocolates and Cocoas to our beloved Queen has been graciously conferred upon us. Encouraged by this distinguished patronage, we feel assured the merits of our Chocolat à la Française will be appreciated by a discerning public.

J. S. FRY & SONS.

LIEBIG'S ANALYSES.

The celebrated chemist Liebig, in explaining the remarkable coincidence which exists between the essential properties of tea, coffee, and cocoa, called by him respectively Théine, Caffeine, and Theobromine, the consequent similarity of their action upon the human system, and the important purposes which they subserve in the animal economy, appears to have made us acquainted with the true cause of the use of these articles, almost as necessaries of life, by whole nations in far-distant regions of the world. He shows that these vegetable essences contain a large proportion of *nitrogen*, an element which is required to produce a healthy action of the bile. Even in small quantities its influence is so powerful, that he states about three grains of one of these essences can give a sufficient amount of nitrogen to an ounce of bile. He says that "only those substances can properly be called nutritious, or considered as food, which are capable of conversion into blood:" "that all parts of the animal body which have a decided shape contain nitrogen." "It obviously follows that all kinds of food, fit for the production either of blood or of cellular tissue," &c., "must contain a certain amount of nitrogen, because that element is essential to the composition of the above-named organs." Now as animal substances are well known to be the most nutritious kind of food, on account of their containing a large proportion of nitrogen, so in choosing those vegetable principles which may be the most supporting and invigorating as portions of our daily sustenance, we should naturally be guided by the same rule; and the principle of cocoa and chocolate is proved to be, on this very ground, the best that can be selected.

For the information of the curious, Liebig's analyses of the principles of tea, coffee, and cocoa are appended, by which it will be seen that Theobromine contains a larger per centage of nitrogen than either of the others—indeed than any other vegetable principle whatever. He distinctly calls "Theobromine the most highly nitrogenized vegetable principle." When it is remembered in addition that, in the form of chocolate, the whole of the finest part of this most valuable of the vegetable substances can be taken as a beverage, whereas in tea and coffee the infusion only can be used, and that in the form of "Bonbons," &c., it constitutes a delicious condiment, its superiority becomes still more obvious.

	THEOBROMINE. The principle of Cocoa and Chocolate.	CAFFEINE. The principle of Coffee.	THEINE. The principle of Tea.
Nitrogen . .	35·38	28·78	29·009
Carbon . . .	47·21	49·77	50·101
Hydrogen . .	4·53	5·33	5·214
Oxygen . .	12·88	16·12	15·676
	100·	100·	100·

FRY'S articles are sold by Tea Dealers, Grocers, Druggists, and Confectioners in Great Britain and Ireland, of whom may be obtained their pamphlet containing full directions for the preparation for the table of all their Chocolates and Cocoas, a history of the Cocoa Tree, &c. &c.

See our Case in the Paris Exhibition, Rotation No. 1150.

HUNTLEY & PALMER,

Biscuit Manufacturers,

READING,

EXHIBITORS IN THE EXHIBITION, HYDE PARK, 1851, AND IN THE PARIS EXHIBITION, No. 1164, Group 3, Class 11.

These Biscuits, now extensively sold in most of the British Colonies, and in many other parts of the world, are packed in tin cases of several sizes, and have been proved to keep well in all climates, and through very long voyages.

All Orders are executed direct from Reading, where they should be addressed.

AGENT IN PARIS DURING THE EXHIBITION,

M. DE FONTAINE MOREAU,

39, RUE DE L'ECHEQUIER,

Where Samples may be seen and particulars obtained.

AGENT IN LONDON,

S. PALMER, 8, ST. BENET'S PLACE, GRACECHURCH STREET.

SUBJOINED IS A LIST OF THE BISCUITS.

SWEET.

Mixed Biscuits.
Currant Tunbridge ditto.
Carraway ditto ditto.
Ginger ditto ditto.
Lemon ditto ditto.
Cinnamon ditto ditto.
Citron ditto ditto.
Shrewsbury ditto.
Rich Arrowroot ditto.
Victoria ditto.
Ginger Wafer ditto.
Carraway ditto ditto.
Filbert ditto.
Dessert Cakes.
Vanilla ditto.
Almond Drops.
Ginger ditto.
Ginger Nuts.
Loaf Gingerbread.

SLIGHTLY SWEET.

Reading Craeknels.
Presburgh Biscuits.
Coffee ditto.
Fancy Machine ditto.
Queen ditto.
Pienie ditto.
Plain Arrowroot ditto.

PLAIN.

Albert Biscuits.
Traveller ditto.
Brown College ditto.
Captain ditto.
Abernethy ditto.
Oval thin Captain ditto.
Soda ditto.
Luneh ditto.
Fine Cabin ditto.

No. 954 in Building on the Cours la Reine.

PURE EXTRACT OF ENGLISH

LAVENDER FLOWERS.

THE LAVENDER PLANT, commonly cultivated in our gardens, and so highly prized for its exquisite perfume, is not indigenous to this country. It was first introduced in the year 1568, from its native hills, in the neighbourhood of Naples, and has been found, under proper management, to attain the greatest perfection upon the English soil. The soil, in the neighbourhood of Hitchin, has long been celebrated for the production of the finest Lavender. The Proprietor has cultivated the Plant for upwards of forty years, and, after repeated experiments in the distillation, considers that the perfume now offered to the public has been brought to the highest perfection. In its preparation, the *flowers* of Lavender are alone employed, which accounts for its acknowledged superiority over every other Extract of Lavender.

OPINIONS OF THE PRESS.

"OLD ENGLISH PERFUME. We have often been amused at the ingenuity exercised in producing novelties for the toilet; nevertheless, there are few which last beyond their birth. Not so with the real English scent, Lavender Water. Nothing has ever maintained its nationality more completely than the Lavender Water of England; is as well known as the Eastern 'Attar of Roses,' or the Continental 'Eau de Cologne,' and far more agreeable than either. It is necessary, however, that the perfume should not only be a genuine extract from the flowers, but that the distillation should be carefully made. Now, we believe, both these qualities are admirably combined in the perfume. At Hitchin, Mr. Perks cultivates the Lavender Plant very extensively; and, being a skilful Chemist, he has succeeded in bringing his distillations of the flowers to great perfection. His last distillation is very fragrant and beautiful; and if our readers, on our recommendation, will try it, we believe they will say it deserves far higher encomiums than we can give it."—*Bedford Times, Dec. 25th*, 1852.

"We feel particular pleasure in recommending to our fair readers the exceedingly agreeable extract of Lavender Flowers, which is prepared by S. Perks, of Hitchin, and may be obtained at Howell, James, and Co.'s, in Regent Street. More than ordinary care has evidently been taken in the preparation of this perfume to produce such peculiar fragrance. The manufacturer states that it is made from the choicest Lavender Flowers, grown by himself; and as in the distillation of fine perfume from flowers everything depends upon their freshness, and their having the bloom upon them, this, with the great care bestowed, will account for the marked superiority of Perks's Lavender Water over any London extract which we have hitherto been accustomed to."—*Court Journal, Jan. 15th*, 1853.

"EXTRACT OF LAVENDER.—We have been favoured by Mr. Perks with a specimen bottle of his Extract of Lavender, which has recently been advertised in our columns; and we are pleased to be able to bear record to the very superior quality of the article, both for its refreshing and delightful perfume, and for its exceeding durability. The scent is retained a considerable time, and the fragrance remains in its original freshness long after ordinary perfumes have entirely departed."—*Herts Guardian, Jan. 29th*, 1853.

Sold by Messrs. **HOWELL, JAMES, & CO.**, Regent Street, London;

And by the following Agents:—

Mr. J. E. DOWSON, 14, Rue du Cirque, Paris.
Mrs. OSBORNE, East Gallery, Crystal Palace, Sydenham.
Messrs. DUNCAN, FLOCKHART, & CO., Edinburgh.

In Bottles at 3*s.* 6*d.* each, and in Wickered Flasks, suitable for Travelling, 5*s.*, 7*s.* 6*d.*, and 13*s.*

Prepared solely by

S. PERKS,

CULTIVATOR AND DISTILLER OF LAVENDER,

HITCHIN.

METCALFE, BINGLEY, & CO.,

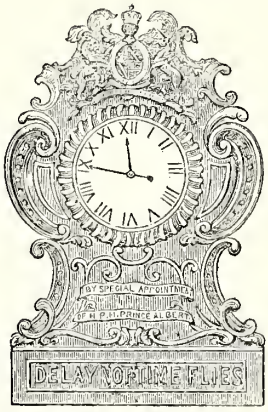
BY SPECIAL APPOINTMENT TO HIS ROYAL HIGHNESS PRINCE ALBERT.

BRUSH AND COMB MANUFACTURERS,

MANUFACTURING PERFUMERS,

AND

SPONGE MERCHANTS,



130B & 131, OXFORD STREET

LONDON

(2nd & 3rd DOORS WEST FROM

HOLLES STREET).

NOTICE.—The above is a fac-simile of the CLOCK M. B. & Co. have erected outside their House to distinguish it from other Establishments. No Brushes are of their Manufacture unless they have the Name and Address stamped on them thus—METCALFE & CO., 130B, Oxford Street, London.

A SHORT DESCRIPTIVE CATALOGUE OF

A FEW OF THE LEADING ARTICLES MANUFACTURED AND SOLD BY M. B. & CO.

Metcalfe and Co.'s New and Original Pattern Tooth Brush.

This Brush possesses the important quality of searching thoroughly into the divisions of the Teeth, and cleaning them in the most effectual manner. They are made in horse hair, and the black is recommended in preference to the white, because it is stronger and more elastic.

Metcalfe and Co.'s Peculiarly Penetrating Hair Brushes.

These Brushes have now a world-wide reputation, and are made in every quality of bristle; but those made with the unbleached bristle are most strongly recommended for stiffness and durability.

Metcalfe & Co.'s Ivory Brushes,

Made in every variety of size and quality, and are famous for the superior manner in which the bristles are drawn in.

Improved Handle Clothes Brushes,

With ends to remove splashes, made with extra long bristle; together with every other description, both with and without handles.

Metcalfe and Co.'s Improved Flesh Brushes,

Made under the direction of, and strongly recommended by, the Faculty. These Brushes are made slightly penetrating, and are of different degrees of hardness, graduating from the softest to the most powerful degree of friction.

Metcalfe and Co.'s Improved Nail Brushes (Finger Nail),

With every other description of the Brush in ivory and bone.

Shaving Brushes

In Badger and French Hair, in Bone and Ivory.

For Specimens of METCALFE, BINGLEY, and CO.'s Tooth Brushes, Penetrating Hair Brushes, Improved Clothes Brushes, Nail Brushes, Flesh Brushes, &c., see their Case in Class XXV., Section 9, No. 3070.

Tortoiseshell, Ivory, and Horn Combs,

Of every description, and in every variety of pattern.

IMPORTERS OF SMYRNA SPONGES.

PERFUMERY DEPARTMENT.

Perfumes for the Handkerchief.

THE EXQUISITE BOUQUET.

This new and delicious perfume has met with the most decided success, and is generally admired for its delicacy and fragrance.

THE BALMORAL BOUQUET.

A new and fragrant perfume, recently introduced by M. B. and Co.

THE FREEMASONS' BOUQUET.

M. B. and Co. invite attention to this new and elegant perfume, which is introduced this Season for the first time.

Bouquet Victoria.	Bouquet Jockey Club.
— Prince Albert.	— Guards.
— Princess Royal.	— Ess. Bouquet.
— Prince of Wales.	— Jenny Lind.
— Windsor.	— Esterhazy.
— Caroline.	— Court.

EXTRACTS TRIPLES.

Violette.	Rose Muscade.
Violette Blanche.	Heliotrope.
Réséda.	Eglantine.
Moss Rose.	Vanille. Musc.
Pois de Senteur.	Suave.
Jasmin.	Patchouly.
Magnolia.	Orange de Portugal
Fleur d'Orange.	Rose Geranium.
Maréchale.	Verveine.
Mignardise.	Cassia.
Tubéreuse.	Geranium.
Mousseline.	Chypre.
Rose	Vetivert.
Muguet.	Miel Ambre.
Miel.	Bois de Santal.
Jonquille.	Fleur D'Italie.
Millefleur.	

ESSENCES.

SPRING FLOWERS, a Universal Favourite.

Curious Essence.	Jasmin.
Musk Lavender.	Musk.
Rondeletia.	Sweet Briar.
Verbena.	Rose.
Geranium.	Sweet Pea.

Esprit de Lavande aux Mille Fleurs.
Esprit Lavande, Ambre.
— au Maréchale.
— Lavande au Musc.
— Lavande au Bouquet.

M. B. and Co.'s celebrated treble distilled

ENGLISH LAVENDER WATER.

Metcalfe's Hygienic Toilet Vinegar.

The refreshing and delicious fragrance of this vinegar has rendered it an especial favourite in the fashionable world, and the public in general; in the sickroom it is invaluable.

METCALFE, BINGLEY, & CO.

SMELLING SALTS
in plain or cut stoppered Bottles.

POCKET PERFUME FOUNTAINS,
Or Collapsible Metallic Tubes.

ery convenient for Ladies or Gentlemen ravelling; and where room is an object his beautiful little Toilet appendage is ecommended as a substitute for the bottle; lled with the best Perfumes, and covered ith richly embossed paper.

ARTICLES FOR THE HAIR.

Dupuytren's Medicated Pomade,
For promoting the growth of the Hair.

Dupuytren's Medicated Balm,
tands unrivalled as a Wash for the Hair, nd is equally celebrated both for its leansing and invigorating properties; it nay be used either with or without the bove Pomade.

Nutritive Cream,
A very superior article for improving and beautifying the Hair.

Pure Bear's Marrow,
For strengthening the roots of the Hair, and preventing its turning grey.

Young's Purified Animal Oil,
A well-known preparation for the Hair.

Œline,
A celebrated article for the Hair.

Crystallised Cream of Honey,
For nourishing and embellishing the Hair.

Pure Bear's Grease,
Carefully prepared and perfumed.

Palma Christe, or Castor Oil Pomade,
A pleasant and useful article for freeing the Head from dandriff, and making the Hair beautifully soft and glossy.

English Oils,
In every variety of perfume.

Cosmetiques,
Of all shades. Carefully prepared and highly perfumed.

Crysphitique,
For fixing the Hair, and giving it a glossy appearance.

Extract of Rosemary,
For cleansing and beautifying the Hair.

Extract of Roses. Vegetable Extract.

HAIR DYES.
METCALFE and CO.'S Instantaneous Liquid Hair Dye, warranted perfectly free from any unpleasant smell whatever; either separate or combined, it is allowed to be the most perfect Dye extant.

Metcalfe and Co.'s Patent Dye, or Creme de Sybarites.

Metcalfe and Co.'s Depilatory,
For removing superfluous Hairs from the Face, Neck, or Arms, with equal certainty and safety.

FOR THE TEETH.

METCALFE'S

ALKALINE TOOTH POWDER.
This Powder, during the time it has been before the Public, has met with a reputation and sale almost unprecedented; it not only avoids all acids, but every ingredient which, while it may produce a splendid polish, at the same time tends to induce a speedy decay. It gives a beautiful white appearance, thoroughly removes the tartar and all other impurities, and the fragrant perfume imparted tends to sweeten the breath.

Camphorated Tooth Powder.
Ditto Charcoal Tooth Powder.
Beetle Nut Tooth Powder.
White Rock Tooth Powder.
Spanish Dentrifice.

METCALFE, BINGLEY, & CO.'S

BALSAMIC TINCTURE.
This article will be found an invaluable addition to every Toilet Table. It both purifies the breath and strengthens the gums, removes at once any unpleasant taste from the mouth; and to gentlemen after smoking it will be found to be a great acquisition, and may be used for washing the mouth after using Powder. M. B. & Co. feel assured that this article having once become adopted, will never be discontinued. Sold in Bottles bearing the Signature of the Proprictors, METCALFE, BINGLEY, AND CO. None others are genuine.

METCALFE & CO.'S

WINDSOR SOAPS.

Emollient Old Brown Windsor.
M. B. & Co. have a great reputation for this article; it is a perfectly mild and emollient Soap, highly salutary to the skin, and it possesses a delightful and lasting perfume.

Musk-scented Old Brown Windsor.
This Soap is prepared in the same manner as the above, with the addition of Musk. To those who admire that perfume, this will be found a most delightful Soap for use.

Family Old Brown Windsor Soap,
Will be found an economical and useful article, and is strongly recommended by the Proprietors for the use of Families.

Improved White Windsor Soap,
Prepared from the best materials. It is highly perfumed, and is well suited for the nursery, or ladies with tender skin.

Fancy Toilet Soaps, in Nonangular Tablets.

Almond.	Maréchale.
Otto of Rose.	Honey.
Musk.	Miel.
Orange.	Almond & Honey
Camphor.	Palm Soap.
Geranium.	Verbena.

SAND BALLS AND TABLETS.

NEW WINTER SOAPS.

METCALFE, BINGLEY, & CO.'S

Oatmeal and Camphor Soap,
In Tablets (Registered Nov. 3, 1854). This Soap will be found the purest and most perfect Winter Soap ever introduced to the public. It preserves the hands from chapping, and renders the skin soft and agreeable.

Oatmeal and Almond.
M. B. & Co. have also prepared an Oatmeal and Almond Soap; for those who admire the perfume of the Almond, it possesses all the emollient qualities of the Almond, combined with the well-known properties of the Oatmeal, and is approved of as a mild and pleasant Soap for use in all seasons.

Caution.—To prevent fraud each Tablet bears the registered mark, and the name and address of the Inventors, as above.

NEW SUMMER SOAP.

METCALFE, BINGLEY & CO.'S ORRIS ROOT SOAP TABLET.
M. B. & Co. strongly recommend this Soap, which will be found especially agreeable and refreshing for Summer use.

SHAVING SOAPS.

Metcalfe & Co.'s Turkish Shaving Cream.
This superior and highly perfumed article is prepared from an original receipt presented to the Proprietors.

NAPLES SOAP as imported or perfumed.
AMEROSIAL CREAM, beautifully perfumed.
TRANSPARENT SOAP, in balls, cakes, and sticks.

FOR THE COMPLEXION.

METCALFE, BINGLEY, & CO.'s

CREAM OF LILIES.
An entirely new and elegant Cosmetique, very superior, for whitening the skin, and beautifying the complexion.

MILK OF ROSES.
Prepared from an original receipt; a pleasant and cooling lotion for the skin.

MILK OF ALMONDS.
A very superior article for the complexion.

COLD CREAM OF ROSES.
The above-named elegant preparation, so well known in the United Kingdom and on the Continent for its beneficial effects on the skin, is prepared by M. B. & Co. of the purest and mildest ingredients, and possesses all the peculiar qualities for softening the skin, for which it stands so pre-eminent.

Otto of Rose Lip Salve. Camphorated Balls for the Lips, or Chapped Hands, made in pink and white. Rice powder, a very superior article for the complexion. Violet Powder. Plain Powder.

SUNDRY ARTICLES.
Court Plaster, in neat wrappers. Ditto, tricoloured, in cases. Toothpicks, in elegant boxes. Best Hair Pins, in boxes. Young's Purified Animal Oil. Robinson's Nutritive Cream. Ditto Spanish Dentifrice. Goldbeaters' Skin in neat wrappers. Indelible Marking Ink. Perfumed Sachets. Perfumed Powders for ditto. Pastilles, in handsome gilt boxes. Nail Scissors. Tongue Scrapers. Army Razors. Razor Strops. Dressing and Travelling Cases. Mouth Mirrors. Hand Glass in Ivory and Wood. Swansdown Puffs. Boxes for ditto. Hair Rollers. Sponge Bags.

NOTICE.—In consequence of the great demand for their Tooth Brushes on the Continent, Metcalfe and Co. have appointed Mr. Walsh (Successor to the late Mr. P. Pariss), Medical Hall, No. 28, Place Vendôme, their Agent in Paris.

A LIBERAL ALLOWANCE TO MERCHANTS, CAPTAINS, AND THE TRADE GENERALLY.

SAMUEL HOLLAND & CO.,

PORT MADOC,

CARNARVONSHIRE, NORTH WALES,

MANUFACTURERS OF ROOFING AND WRITING-SLATES,

FROM THEIR OWN SLATE QUARRIES.

SIZES AND WEIGHT OF ROOFING-SLATES MADE ARE—

Inches.		Inches.		Tons.	Cwt.	
24	×	14	weighing	3	10	of 1260 Slates.
24	×	12	,,	3	0	,,
22	×	12	,,	2	15	,,
22	×	11	,,	2	10	,,
20	×	10	,,	2	0	,,
18	×	10	,,	1	15	,,

Inches.		Inches.		Tons.	Cwt.	
18	×	9	weighing	1	10	of 1260 Slates.
16	×	10	,,	1	10	,,
16	×	8	,,	1	5	,,
14	×	8	,,	1	2½	,,
14	×	7	,,	1	0	,,
13	×	6½	,,	0	15	,,

Intermediate and Smaller Sizes made if required.

Vessels suitable for carrying Slates can at all times be chartered at Port Madoc to any European Ports.

Messrs. HOLLAND will attend to the engaging of the Vessels, Insuring the Cargoes (if required), and the loading of the Slates.

THEY ALSO SUPPLY

SLABS OF ALL SIZES,

SUITABLE FOR MAKING CISTERNS, CHIMNEY-PIECES, FLOORING, &c. &c.

Any further information will be afforded by addressing them as above.

Specimens of their Slates can be seen at No. 73, Class I., Minerals.

By Royal Letters Patent.

The Cosmopolitan Glass Company,

HELY & WARING, MANAGERS,

296, OXFORD STREET, LONDON

(OPPOSITE STRATFORD PLACE).

PLATE, CROWN, AND SHEET WINDOW GLASS,

HARTLEY'S PATENT ROUGH PLATE,

FOR ROOFING AND LIGHTING CONSERVATORIES, BUILDINGS, &c.

COLOURED AND ORNAMENTED GLASS.

CRYSTAL GLASS SHADES,

FOR COVERING ORNAMENTS AND ALL KINDS OF PERISHABLE GOODS.

GILT, EBONISED, AND BLACK STANDS, CHENILLE, &c.

GLASS MILK-PANS, PAILS, TESTS, AND MEASURES; CREAM-POTS AND SYPHONS; CHURNS, BUTTER-TESTS AND SLABS; TILES AND SLATES; PICKLING-TUBS, BEE-HIVES, ETC.

HELY'S PATENT GLASS HAND-CHURN AND EGG-BEATER.

WARING'S IMPROVED GLASS PASTRY-SLAB AND ROLLING-PIN.

LOCKHEAD'S PATENT PERFORATED GLASS

(Sheet or Rough Plate) for Ventilation.

GLASS AQUARIUMS, WARDIAN CASES, FERN SHADES,
PROPAGATING GLASSES, FRUIT PROTECTORS, CUCUMBER TUBES, GARDEN LIGHTS, PRESERVE JARS,
HYACINTH AND CROCUS DISHES, FLOWER-POTS, LABELS, ETC.

MOORE'S PATENT GLASS LOUVRE VENTILATORS.

Household, Table, Tavern, and Fancy Glass.

LAMP AND GAS SHADES, CHIMNEYS, REFLECTORS, &c.

CHEMICAL AND PHOTOGRAPHIC GLASS.

HELY'S PATENT PHOTOGRAPHIC SPECULUM,

For Restoring Photographic Miniature Representations to the Life or Natural Size.

(Group 7, Class 26, No. 3184.)

And every other Description of

Architectural, Agricultural, Horticultural, Domestic, Scientific, and Ornamental Glass, British and Foreign.

WHOLESALE, RETAIL, AND FOR EXPORTATION.

Paris Exhibition, 1855.

SPECIMENS OF

ANTHRACITE OR STONE COAL

EXHIBITED BY

RICHARD MORGAN & SONS,

GELLY CEIDRIM COLLIERY,

LLANELLY, CARMARTHENSHIRE,

PRODUCERS.

It is used for every description of Steam purposes, Ocean-going, Locomotive, and Stationary, also for Arnott's Stoves, and for drying Malt, Hops, and Corn.

It is also used in England by the largest Bakers, such as Mr. Le Mann, of London, and for Breweries and Manufactories.

1st. It is suggested that, by placing the fire bars rather nearer the plates than usual, this fuel is consumed in the ordinary manner under every variety of common boiler attached to the Engines employed at the Stone Coal Collieries, with a saving of 23 per cent. above the best Steam Coal named upon the English Admiralty list, as tested by numerous trials; and that no difficulty could arise to its general consumption in Manufactories, so placed as where smoke is considered a nuisance.

2nd. By the very simple use of fire-brick sides and back to each grate, Stone Coal is exclusively used in every house throughout and to the back of the Welsh Anthracite district, comprising the whole of Pembrokeshire, Cardiganshire, and a great part of the Counties of Carmarthen and Brecon, where every Cook in every Inn and private family throughout the above extent of country knows that a fire once made with Stone Coal becomes a mass of bright heat, and requires no replenishing during a long course of cooking. The same is preferred accordingly, even to the very best bituminous and other Coals, which are mostly close at hand.

3rd. That this fuel possesses the qualities that enable the 'Great Britain' to steam clear out to Australia, effecting a saving of one-twelfth in time, besides the enormous advantages obtained in stowage, &c. &c. &c.

Her Britannic Majesty employs this description of fuel in her Yachts, &c. The varieties of Anthracite are as numerous as those of Bituminous Coal, from the purest to those containing such a percentage of Sulphate of Iron as to render them worthless. The residuum of ash is considered by consumers to be the nearest test of Market value.

ELLIOTT BROTHERS

(LATE ELLIOTT AND SONS),

56, STRAND, LONDON,

MANUFACTURERS OF

MATHEMATICAL, OPTICAL, AND PHILOSOPHICAL INSTRUMENTS,

To the Admiralty, Ordnance, East India Company, and Military Colleges.

Prize Medal of the Great Exhibition, 1851.

Also Three Prize Medals at the American Exhibition of All Nations,

FOR

OPTICAL INSTRUMENTS.	SURVEYING INSTRUMENTS.	DRAWING INSTRUMENTS.

56, STRAND, LONDON.

EUGENE RIMMEL,

No. 956, Building on the Cours la Reine.

PERFUMER

AND

SOAP-MAKER.

Head Manufactory,

39, Gerrard Street, Soho,

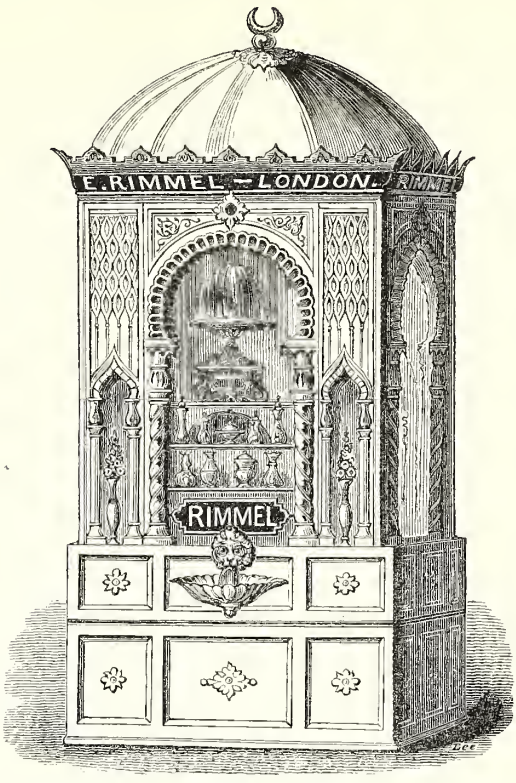
LONDON.

Branch Manufactory,

X,

Vieille Route de Neuilly,

PARIS.



PARFUMEUR

SAVONNIER.

Manufacture Principale,

39, Gerrard Street, Soho,

LONDRES.

Fabrique Succursale,

X,

Vieille Route de Neuilly,

PARIS.

ARTICLES EXHIBITED.

TOILET VINEGAR FOUNTAIN.

At the London Exhibition, 1851, this perfume-fountain attracted much attention, and was even honoured on the 22nd of May with the visit and flattering approbation of Her Majesty the QUEEN and the Royal Party. It was subsequently exhibited at Dublin and New York, and at the Crystal Palace, Sydenham. Rimmel's Fountain is illustrated in the Official Catalogue as one of the chief objects of attraction. E. RIMMEL hopes this will prove equally agreeable to the fair Visitors of the Paris Exhibition, who will find its fragrant waters a great relief to the oppression caused by a ramble through the stupendous buildings. As to the perfume exhibited, the qualities of Rimmel's Vinegar as a reviving scent, especially for crowded places, as well as a refreshing adjunct to the toilet, are too well known to need any encomium. It will suffice to say that RIMMEL'S TOILET VINEGAR was the only one rewarded at the London and New York Exhibitions by honourable and special mentions.

The Moorish style has been adopted for the stand, which the above engraving represents, as illustrative of the origin of perfumery, which was first introduced by the Arabs, and also as an appropriate framework for an odorous stream—the East being of all others the " land of fountains." The case contains besides, specimens of the following Articles of Rimmel's manufacture, which he recommends to the kind notice of the public.

TOILET SOAPS.

Brown and White Windsor Soaps.
Musk-scented ditto, of a delicious aroma.
Honey Soap, agreeable and economical.
Almond and Honey Soap, an emollient Family Soap.
Pure White Almond Soap, free from prussic acid.
Queen's Soaps, very finely scented.
Ladies' Own Soap, &c. &c.

ARTICLES EXPOSÉS.

FONTAINE DE VINAIGRE DE TOILETTE.

A l'Exposition de Londres en 1851 cette Fontaine de Parfum attira beaucoup l'attention, et fut même honorée le 22 Mai de la visite et de l'approbation de Sa Majesté la REINE VICTORIA et de la Famille Royale. Elle fut ensuite exposée à Dublin et à New York, et au Palais de Crystal à Sydenham. La Fontaine de RIMMEL est illustrée dans le Catalogue Officiel comme un des objets dignes de remarque. E. RIMMEL espère que les Dames qui visiteront l'Exposition voudront bien accueillir celle-ci aussi favorablement, et qu'elles apprécieront la suave fraîcheur qu'elle répand dans l'atmosphère. Quant au Vinaigre Rimmel qui en jaillit les qualités de ce parfum, tant pour le mouchoir que pour la toilette, sont trop connues pour qu'il soit nécessaire d'en faire ici l'éloge. Il suffira de dire que ce fut le seul Vinaigre de Toilette qu'on récompensa aux Expositions de Londres et New York par des mentions honorables et spéciales.

On a choisi le Genre Moresque pour la montre représentée plus haut, comme faisant allusion à l'origine de la parfumerie, qui nous vient principalement des Arabes, et aussi comme encadrant convenablemen une fontaine—l'Orient étant, comme on le sait, le pays où ce genre d'ornements est le plus en faveur. On y trouvera des échantillons des produits suivants de la fabrique de E. RIMMEL, qu'on recommande à l'attention bienveillante du public.

SAVONS DE TOILETTE.

Savons Blancs et Bruns de Windsor.
Windsor musqué, d'un arome délicieux.
Savon au Miel, agréable et économique.
Savon aux Amandes et au Miel combinés.
Savon Blanc aux Amandes, dégagé d'acide prussique.
Savons de la Reine, parfums extra fins.
Savons des Dames, &c. &c.

EUGENE RIMMEL.

SHAVING SOAPS.

Malaktikon, in convenient Squares for Travelling.
Cream of Almonds, in pots.
Transparent Soaps, in Cakes and Sticks.

PERFUMES FOR THE HANDKERCHIEF.

BOUQUETS.

Ess. Bouquet.	Victoria.	Empress Eugénie.
Jockey Club.	Albert.	Alma.
Jenny Lind.	Raglan.	Canrobert.
Sontag.	Royal Highland.	Opera.
Great Exhibition.	Turkish.	Osborne.
Sydenham.	Windsor.	Guards', &c.

Bouquet du Palais de l'Industrie, a new and choice Perfume in elegant Bottles.

TREBLE EXTRACTS.

Moss Rose.	Violet.	Magnolia.
Patchouly.	Sweet Pea.	New-mown Hay.
Heliotrope.	Millefleurs.	Sweetbriar.
Jasmin.	Bengal Roses.	Portugal, &c.

Pure Extract of Lavender Flowers.

The above are put up in plain or Richly-cut Bottles; also in Fancy Crystal, and Parian Marble Jars of various kinds, in Irrigators or Pocket Fountains, &c.

FOR THE HAIR.

Queen's Pommade, finely perfumed.
Hygienic Pommade, various Perfumes.
Nutritive Cream, a choice pellucid preparation.
Great Exhibition Pommade.
Bear's Grease, Marrow Oil, &c.
Hygienic Hair Wash.
Indelible Cosmetics, in Cakes and Boxes.
Instantaneous Hair Dye, the only safe, permanent, and effectual.

FOR THE COMPLEXION.

Cold Cream of Roses.
Serkis des Sultanes, highly recommended for the Skin.
Hygienic Lotion for removing cutaneous imperfection.
Rose-leaf Powder, superior to Violet or Rice Powder.
Velvetine, to be used instead of Soap for delicate Skins.

DENTIFRICES.

Odontine, a preservative Tooth Powder.
Hygienic Dentifrice, for whitening the Teeth.
Dr. Johnson's Elixir, for bracing the Gums.

SUNDRIES.

Winter Bouquets possessing the perfume of natural flowers.
Perfumed Almanacks, for scenting Pocket-Books, Card-Cases, Writing Desks, &c.
Oriental Pastiles, for perfuming Apartments.
Rose and Orange Flower Water.
Court Plaster, tricoloured, in Cases.
Diamond Dust, for giving a keen edge to Razors.
Indelible Marking Ink.
Magic Essence for removing Spots, &c.
Liquid Glue, for repairing China, &c.
Essential Oils of every description.
Pear, Pine-apple, and other Fruit Essences for Confectioners.

Sold retail by all the principal Perfumery Vendors throughout the world.

The usual allowance is made to Merchants and Dealers, who are respectfully invited to apply to either of the Manufactories to inspect samples and obtain trade-price lists.

39, GERRARD STREET, SOHO, LONDON;
AND
K, Vieille Route de Neuilly, Paris.

SAVONS POUR LA BARBE.

Malaktikon—Savon de voyage.
Crême d'Amandes, en pots.
Savons Transparents, en pains et bâtons.

PARFUMS POUR LE MOUCHOIR.

BOUQUETS.

Ess. Bouquet.	Victoria.	Impératrice Eugénie.
Jockey Club.	Albert.	Alma.
Jenny Lind.	Raglan.	Canrobert.
Sontag.	Ecossais.	Opéra.
Exposition.	Turc.	Osborne.
Sydenham.	Windsor.	Gardes', &c.

Bouquet du Palais de l'Industrie, Parfum nouveau, en flacons élégants.

TRIPLES EXTRAITS.

Roses Mousseuses.	Violette.	Magnolia.
Patchouly.	Pois de Senteur.	Foin nouveau.
Héliotrope.	Millefleurs.	Eglantine.
Jasmin.	Roses du Bengale.	Portugal, &c.

Extrait pur de Fleurs de Lavande Anglaise.

Ces Parfums sont montés en Flacons unis ou taillés, et aussi en Cruchons de Cristal et de Marbre de Paros de différens genres, en Irrigateurs ou Fontaines de Poche, &c.

POUR LES CHEVEUX.

Pommade de la Reine, parfums fins.
Pommade Hygiénique à diverses Odeurs.
Crême Nutritive diaphane.
Pommade de l'Exposition.
Graisse d'Ours, Moelle de Bœuf, &c.
Eau Hygienique pour nettoyer la tête.
Cosmétique Indélébile, en Pains ou en Boîtes.
Teinture Instantanée, la seule qui donne une nuance naturelle et permanente sans le moindre danger.

POUR LE TEINT.

Crême Froide à la Rose.
Serkis des Sultanes pour adoucir la Peau.
Lotion Hygiénique pour enlever les taches de rousseur, &c.
Poudre de Feuilles de Roses, remplaçant avantageusement la Poudre de Riz.
Velvetine, nouvelle Pâte au Miel pour les Mains.

DENTIFRICES.

Odontine, Poudre à Dents préservative.
Dentifrice Hygiénique pour blanchir les Dents.
Elixir du Dr. Johnson, pour les soins de la Bouche.

ARTICLES DIVERS.

Bouquets artificiels, possédant le parfum des fleurs naturelles.
Almanachs parfumés pour Portefeuilles, Buvards, &c.
Pastilles Orientales, pour parfumer les appartements.
Eaux de Rose et de Fleurs d'Oranger.
Taffetas d'Angleterre de trois couleurs en étuis.
Poudre de Diamant pour faire couper les Rasoirs.
Encre ineffaçable à marquer le Linge.
Essence Magique pour enlever les taches.
Glue liquide pour raccommoder la Porcelaine, &c.
Essences et Matières premières.
Essences de Poire, Ananas et autres Fruits, pour Confiseurs.

Ces articles se trouvent au détail dans tous les principaux Magasins de Parfumerie du monde.

MM. les Négocians et Débitans sont priés de vouloir bien s'adresser à l'une des deux Fabriques pour obtenir les prix de gros et voir les échantillons. Il leur sera fait les remises d'usage.

39, GERRARD STREET, SOHO, LONDRES;
ET
K, Vieille Route de Neuilly, Paris.

ESTABLISHED A.D. 1820.

HUGHES AND KIMBER,

MANUFACTURERS OF ENGRAVERS' PLATES,

Importers of

LITHOGRAPHIC STONES, BRONZE POWDER,

Leaf Metal, Fine Colors, &c.,

106, 107, & 102, SHOE LANE, FLEET STREET, LONDON.

COPPER PLATES.

Prize Medal, Great Exhibition, 1851.

Card Plates in all sizes
Invoice ditto ditto
Letter Headings, ditto
Bills of Exchange
Sheet Copper and Slips for cutting up
Copper Glazing Plates

—o—

STEEL PLATES.

Of tempers suitable for Engravings in Line, Chalk, Mezzotinto, Writing, or other Engravings
Steel Plates for Glazing Paper or Cards

—o—

ZINC PLATES.

For Doors or Windows
Zinc Planished and Grained for Zincographic Printing
Zinc in Sheets, 7 ft. ×2 ft. 8 in., in rough or surfaced for Door Plates. Any size to order.

—o—

BRASS PLATES.

For Door Plates, Coffin Plates, &c.
Brass Sheets or Slips in the rough
Ditto surfaced for Door Plates, &c.
Latten Brass.

—o—

DOOR AND WINDOW PLATES.

Flat, Bent, and O. G. made and engraved to order.

—o—

LITHOGRAPHIC STONES.

Direct importations of German Stones, yellow and grey; in all sizes from 9×7 to 53×31

LITHOGRAPHIC MATERIALS.

Black Ink, Nos. 1, 2, and 3
Blue, Vermilion, or any Coloured Ink to pattern
Varnish, Tinting, Thin, Middle, and Strong
Retransfer Inks
Superior Paris Chalks
,, Paris Black
,, Calcined ditto
Retransfer, Writing, and Tracing Papers
Polishing Snakes
Graining Sieves and Sand
French Rollers and Skins
Damping Canvas
Lithographic Pens, Steel, and Tables
Tympans, Leather, Copper, Brass & Zinc
Ruling Pens, Tracing Points
Turkey Sponge, Gums
Palette Knives, Stones for Slabs, Mullers

—o—

BRONZE POWDERS.

Citron Bronze	Yellow
Green Yellow	Deep Gold
Bright Gold	Extra Deep
Orange	Pale Crimson (Copper)
Pale Gold	Crimson
Medium	Silver, &c. &c.

—o—

SUNDRIES.

Engravers' Tools
Black Wax for Door Plates
Etching Ground, Wax, &c.
Emery Paper, Rotten Stone, &c.
Frankfort Black, Nos. 1 and 2
Burnt Oil—Weak, Middle, and Strong
Copper-plate Ink
Swan-skin Blanketing
Letter-press Inks, all kinds
Cards, Plain, Tinted, and Enamelled, best London make

LEAF METAL.

Yellow and White

—o—

FINE COLORS.

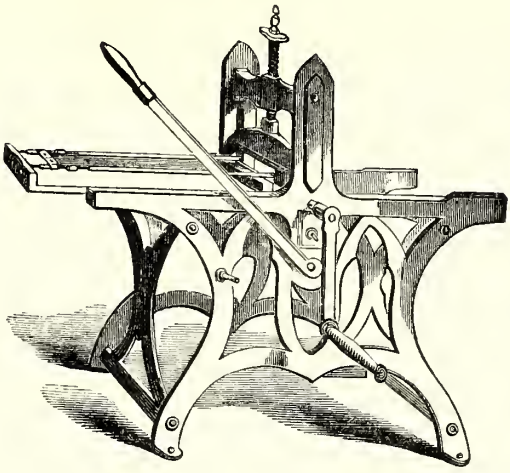
VERMILION—Pale
,, Deep
,, Carmine
,, French
CARMINE—In Powder
,, Lump
LAKE—Finest French
,, Carmine
,, Drop Crimson
,, ,, Pale ,,
,, ,, Scarlet
,, Purple
,, Violet
,, Claret
,, Madder
,, Green, Light and Dark
,, Blue
,, Yellow
BLUE—French
,, Chinese
,, Pure
,, Prussian
,, Antwerp
,, Cobalt
,, Ultramarine Dark
,, ,, Light
BROWN—Vandyke
,, York
,, Terre de Sienne
,, Terre d'Ombre
,, Naples
,, Turkey Umber
WHITE—Flake
,, Kremnitz
CHROME—Pale, Deep, and Orange
Indian Red
Rose Pink
Emerald Green
French Dusting Green

Lithographic and Copper-Plate Presses, Paper-Cutting Machines, &c.

SOLD BY

HUGHES AND KIMBER.

These Presses have Cross Heads of best Malleable Iron,



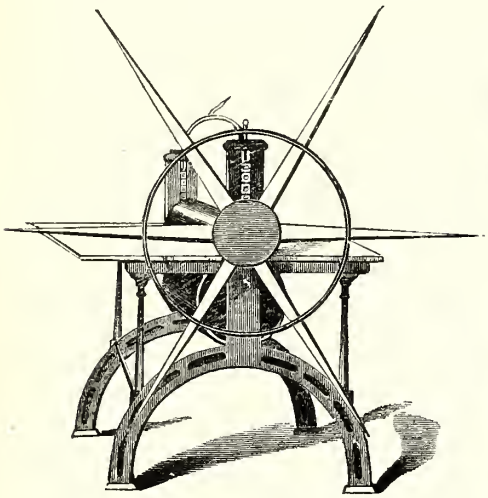
Side Lever and all Recent Improvements.

in.	in.	£.	s.	d.
12	× 18	6	15	0
14	× 21	7	17	0
16	× 24	9	9	0
18	× 27	10	10	0
20	× 30	12	0	0
22	× 33	13	10	0
24	× 36	15	15	0

in.	in.		£.	s.	d.
24	× 36	with wheel and pinion	17	10	0
26	× 39	ditto and improved stop	22	0	0
28	× 42	ditto ditto	25	5	0
30	× 45	ditto ditto	29	10	0
34	× 51	ditto ditto	34	0	0
38	× 57	ditto ditto	38	0	0

Larger Sizes to order.

COPPER-PLATE PRESSES:

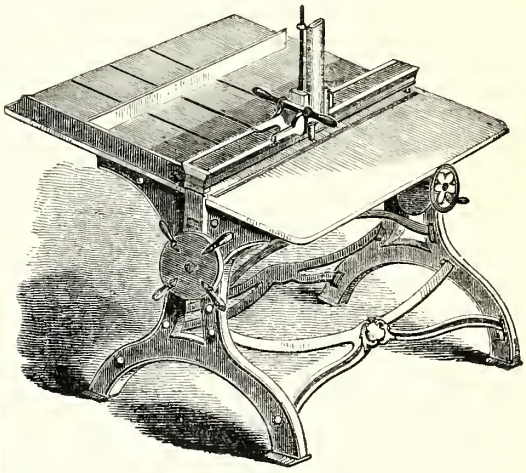


With Iron Frame, Iron Rollers, and Planed Iron Plank.

	£.	s.	d.
13 inches	11	10	0
15 ditto	14	10	0
18 ditto	18	0	0
20 ditto	20	0	0

Larger Sizes to order.

IMPROVED PAPER-CUTTING MACHINES:



To cut—	£.	s.	d.
28 inches	11	0	0
32 ditto	13	0	0
36 ditto	15	10	0
40 ditto	17	10	0

106, 107, & 102, SHOE LANE, LONDON.

Light, Pliant, Ventilating Hats.

The Hats exhibited at the Paris Exhibition by

MESSRS. GAIMES, SANDERS, & NICOL

are of an entirely new manufacture, and are shown for their

EXTREME LIGHTNESS,

the weight being under 4 oz.; their DURABILITY, not being liable to go out of shape in wear like the ordinary light Hats. For their

PLIANCY TO THE HEAD AND PERFECT VENTILATION

they are particularly suited for Exportation, and hold a high character in the Australian and Indian Markets.

They can be obtained in LONDON, Wholesale or Retail, only

AT THE FACTORY, 22, BIRCHIN-LANE, CORNHILL;

The Branch Establishment, No. 111, Strand;
Royal Panopticon of Science and Art, Leicester Square;
And Crystal Palace, Sydenham.

PRICES THE SAME AS THE ORDINARY MAKE OF HAT.

Chapeaux légers, flexibles, et accessibles à l'Air.

Les Chapeaux mis à l'Exposition de Paris par

MM. GAIMES, SANDERS, & NICOL

sont d'une confection entièrement nouvelle; leur Légereté est telle que le poids d'un Chapeau n'atteint pas 4 onces; ils durent longtemps, sans se déformer comme tous les Chapeaux légers actuels. Leur Flexibilité qui les fait s'adapter à la tête, et leur Ventilation parfaite, les rendent propres à l'Exportation; ils sont fort recherchés dans le commerce avec l'Australie et les Indes.

On ne peut se les procurer, en gros ou en détail, qu'à la Manufacture de Birchin Lane, No. 22, Cornhill; à la Succursale dans le Strand, No. 111; au Panopticon Royal des Sciences et des Arts, Leicester Square; et au Palais de Cristal à Sydenham.

On les vend au prix des Chapeaux ordinaires.

Hüte, leicht, biegsam, und eine Oeffnung für frische Luft.

Die Hüte von

MM. GAIMES, SANDERS, & NICOL

ausgestellt in Paris, sind von einer ganz neuen Bearbeitung. Ihre Leichtigkeit ist so gross dass ein Hut nicht vier Uzen wiegt; sie dauern lange ohne ihre Form zu verlieren, wie gewöhnlich die jetzigen leichten Hüte thuen; durch ihre Biegsamkeit ziehen sie sich nach dem Kopf, und ihre vollkommene Ventilation giebt ihnen einen Vortheil für Exportation; man sendet viele nach Australien und nach Indien.

Diese Hüte sind nur zu haben einzelne oder in der Mehrzahl in der Fabrik Birchin Lane, No. 22, Cornhill; in Strand No. 111; in Pantechnicon Royal des Sciences et des Arts, Leicester Square; und in Palais de Cristal in Sydenham.

Man verkauft sie selbigen Preis wie die gewöhlichen Hüte.

Paris Exhibition, Group VII., Class XXV., Rotation No. 2979.

S. W. NORMAN,

4, OAKLEY STREET, WESTMINSTER ROAD,

LAMBETH, LONDON,

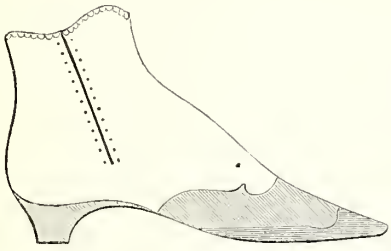
INVENTOR AND MAKER OF CORK SOLE BOOTS,

AS EXHIBITED IN PARIS,

ON AN IMPROVED PLAN, WITHOUT ANY RAN OR STITCHING IN THE SOLE,

MUCH LIGHTER AND MORE DURABLE THAN ANY OTHER CORK BOOT,

AND LESS LABOUR REQUIRED IN THE MANUFACTURE.



LADIES' BOOTS.

The construction of the Heel is such that it will retain the Polish and Shape, also support the Waist of the Boot; and is lighter and more durable. It is also easier and quicker to manufacture.

ELASTIC PEGGED BOOTS.

The Sole and Inner Sole are cemented together, so that they will not part, and are perfectly Waterproof. They are very light and easy to wear.

Specimens may also be seen at the South-west Gallery, Crystal Palace, Sydenham.

Great Exhibition, 1851, Class XX., No. 167, awarded Honourable Mention for excellence of work in Ladies' Cork Soled Boots.

LIST OF PRICES.

GENTLEMEN'S.	£.	s.	d.
Wellington Boots	1	1	0
Ditto, the best Bordeaux Leather, any Shape or Style	1	3	0
Re-footed with ditto	0	16	0
Button Boots, from	0	16	0
Best Morocco Leg Dress Boots	1	10	0
With Cork Soles, extra from	0	4	0

LADIES'.	£.	s.	d.
Cashmere Boots	0	7	6
Double Sole Ditto	0	8	6
Double Sole Patent Boots, with Heel	0	10	6
Cork Heel Patent Boots	0	11	6
Exhibition Cork Sole Boots	0	14	0
Ladies' Riding Boots	1	3	0

LASTS MADE TO THE FEET.

An Assortment of the Best Goods of our own Manufacture kept in Stock.

NORMAN'S NEW ELASTIC PEGGED BOOTS,

The Soles being impervious to damp.

WELLINGTONS MADE TO MEASURE, 1*l.* 3*s.*

CORK SOLE BOOTS MADE FOR EVERY DESCRIPTION OF LAMENESS.

Exhibition Universelle à Paris, Groupe VII., Classe XXV., Rotation No 2979.

S. W. NORMAN,

4, OAKLEY STREET, WESTMINSTER ROAD,

LAMBETH, LONDRES,

INVENTEUR ET FABRICANT

DE

BOTTES À SEMELLES DE LIÈGE,

D'UNE FAÇON TOUTE NOUVELLE,

SANS ENVELOPPE ET POINTS DE PIQURE DANS LA SEMELLE.

CETTE CHAUSSURE EST BIEN PLUS LÉGÈRE POUR LE PIED ET PLUS DURABLE QUE LA BOTTE ORDINAIRE ; ELLE DEMANDE AUSSI MOINS DE TEMPS À FABRIQUER.

BOTTINES DE DAMES.

La construction du Talon de cette Chaussure est faite d'une telle manière qu'il retient sa Forme et son Brillant, et en même temps aide beaucoup à soutenir la Cambrure de la Bottine. La fabrication en est plus facile et économique, en ce qu'elle prend moins de temps à faire ; elle est aussi plus légère et bien plus durable.

BOTTINES ELASTIQUES,

Dont les Semelles sont mises avec des Chevilles. La Première et la Semelle sont cimentées ensemble de la manière qu'elles ne peuvent se séparer l'une de l'autre.

L'avantage de cette Chaussure est qu'elle est parfaitement imperméable à l'eau ; elle est aussi très légère et très aisé à porter.

On peut voir des Spécimens au Palais de Cristal, à Sydenham, galerie de sud-ouest.

NOUVELLES BOTTINES ELASTIQUES DE NORMAN.

Les semelles, mises avec des Chevilles, sont imperméables à l'eau.

WELLINGTONS FAITS À L'ORDRE, 1*l.* 3*s.*

BOTTES À SEMELLES DE LIÈGE DE TOUTES SORTES POUR LES DÉFORMATIONS DE PIED.

BRAITHWAITE AND CO.,

KENDAL

(MILL, MEAL BANK, NEAR KENDAL),

Manufacturers of

TWEEDS.

SHEPHERD PLAIDS.

FANCY TROUSERINGS.

BLACK DOESKINS.

LININGS FOR OVER AND WALKING COATS, &c.

BRAITHWAITE AND CO.,

KENDAL,

Manufacturers of

LINSEYS, with Linen, Cotton, or Worsted Warps, and Woollen Weft, or Woollen and Cotton Weft, Striped, Checked, Shot, and Self-coloured, in all varieties.

COLLAR CLOTHS, with White Ground Checked with Dark Blue, Scarlet, Yellow, Orange, &c.

COLLAR CLOTHS, with Dark Grounds Checked with various colours.

WHITE COLLAR CLOTHS.

BLUE COLLAR CLOTHS.

SCARLET COLLAR CLOTHS.

DARK CHECKED MINERS' FLANNELS, Unmilled.

MINERS' FLANNELS, Checked and Striped, Milled.

SAGATHIES, KENDAL COTTONS, &c.

11, *Donegall Place*, **BELFAST**, *2nd April*, 1855.

BLEACH WORKS,
MILLTOWN, BANBRIDGE.

SMYTH, WEIR, & CO.,

Linen Manufacturers, Bleachers, and Merchants,

DYERS AND FINISHERS.

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4/4 Extra Heavy Linens .	11	11½	12	12½	13½	14½	15½	16½	18	20	22	2/1	2/4	2/9	3/3	3/9
7/8 ,, ,, .	10	10½	11	11½	12½	13½	14½	15½	16½	18	19½	22	2/1	2/4	2/9	3/3

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4/4 Heavy Linens . . .	10½	11	11½	12	13	13½	14½	15½	17	19	21	2/	2/3	2/8		
7/8 ,, ,, . . .	9½	10	10½	11	11½	12	13	14	15½	17	19	21	2/	2/3		

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4/4 Strong Mediums . .	..	..	11	11½	12	12½	13½	14½	16	17½	19	21				
7/8 ,, ,, . .	..	..	10	10½	11	11½	12½	13½	14½	16	17½	19				

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4/4 Light Mediums . .	..	..	..	10	10½	11	12	13	14½	16	18	20	22½	2/2	2/6	
7/8 ,, ,, . .	..	..	8	8½	9	9½	10½	11½	12½	14	16	18	21			

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4/4 Light Linens (Superiors)	..	..	..	..	9½	10	11	12	13½	15	17	19	21½	2/1	2/6	
4/4 ,, ,, .	..	..	7½	8	8½	9	10	11	12½	14	16	18	21	2/	2/6	

No.	1	2	3	4	5	6	7
40-inch Heavy Sheetings .	15	16	17	18	19½	21	23
45 ,, ,, .	18	19	20½	22	2/	2/2	2/4
54 ,, ,, .	22	23	2/0½	2/2	2/3½	2/5	2/7
84 ,, ,, .	3/3	3/6	3/9	4/	4/4	4/8	
102 ,, ,, .	4/	4/4	4/8	5/	5/4	5/8	
120 ,, ,, .	..	..	5/10	6/3	6/8	7/2	7/9

No.	1	2	3	4	5	6	7	8
45-inch Medium Sheetings .	16	17	18	19½	21	22½	2/	2/3
54 ,, ,, .	19	20	21	22½	2/	2/1½	2/3	

No.	2	3	4	5	6	7	8	9	10	11	12	13
3/4 Brown Linen Drills .	5	5¼	5¾	6	6½	7	7½	8	8½	9	10	11
3/4 White ,, .	..	..	7	7¼	7½	8	8½	9	9½	10	11	12
3/4 Slate ,, .	5¼	5½	6	6¼	6¾	7¼	7¾	8¼	8¾	9¼	10¼	11¼

No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
23-inch Linen Handkerchiefs	4/	4/3	4/6	4/9	5/	5/3	5/6	6/	6/9	7/6	8/6	9/6	10/9	13/	14/6
25 ,, ,, .	4/9	5/	5/3	5/6	5/9	6/	6/6	7/	8/	8/9	9/6	10/6	12/	14/	15/6
19 ,, ,, .	2/9	2/11	3/1	3/3	3/5	3/7	3/10	4/3	4/8	5/2	5/9	6/4	7/6	8/6	9/6

J. & J. CLARK & CO.,

THREAD MANUFACTURERS,

PAISLEY.

PRICE LIST.

		300 yds.	200 yds.	100 yds.
No. 10 to 40,	per Dozen . . . 6 Cord	1/9	1/3	8*d.*
No. 42 to 70,	„ . . . 4 „	1/5	1/0	6*d.*
No. 80 and upwards	„ . . . 3 „	1/3	11*d.*	5*d.*

100 Yards 3 Cord, White, Black, and Colors, 4/9 per Gross.

Patent Polished Thread,

	200 yds.
No. 10 and upwards, per Dozen	1/3

Brass Capped Reels,

	200 yds.
No. 1 and upwards, per Gross	15/

Best Six Cord Crochet,

	200 yds.	100 yds.
No. 2 and upwards, per Gross	15/9	8/3

Wire Thread for Bonnets,

No.	10	12	14	16	18	20	22	24	26	28	30
Per lb.	3/.	3/2	3/4	3/6	3/9	3/11	4/2	4/5	4/8	4/10	5/1

All these Threads warranted in length and quality.

STOCKER BROTHERS,

HYDRAULIC ENGINEERS, PEWTERERS, AND BAR FITTERS,

3 & 4, ARTHUR STREET, NEW OXFORD STREET, LONDON.

The only Prize Medal, 1851.

No. 1.—Stocker's Improved Patent Beer Engine. Chiefly remarkable for the parallel motion of the piston, and the ready access afforded to the valves.

No. 2—Is a Bracket Pump on the same principle as No. 1, for fixing against a wall in conservatories, out-buildings, gardens, &c., to force water, &c., to the top of a house, or to a garden or cistern, and for all similar purposes.

No. 6.—A Pump on same principle, with a cut-glass cylinder.

No. 9.—A Licensed Victualler's Counter, with Circular Ends. It has separate compartments for Beer and Spirits. The top of the counter and the recess under the spirit taps are covered with pewter. The outside panels are portable, to allow access to the engines and to the spirit pipes. Stocker's Patent Engine is here shown in three different forms. See description of No. 11.

No. 11.—Stocker's Patent Royal Standard Case Engine. It has no slot or sweep for the lever handle to work up and down in; instead of which the lever is curved, and works out through a round hole, so that no dirt, grit, or slops can come into contact with the works. It is here shown in a Spanish Mahogany Case. It may be fixed in the Counter with a handsome moulding, either in mahogany, slate, marble, or pewter, and various other material, standing a few inches above the Counter top, as shown in the Seven-motion of Nos. 9 and 10; or quite level with the Counter, as shown in the Three-motion fixed in No. 9; or for the lever to pull out through the edge of the Counter, as in the Four-motion fixed in No. 9.

No. 13.—An Engine on the same principle as No. 11, the lever working through the front, instead of through the top.

No. 16.—Stocker's Patent Royal Standard Pillar Engine. It has a *perfectly parallel* action, the piston-rod being hollow, and sliding over a fixed guide rod, materially lessening the pressure upon the stuffing box, and the liquid cannot leak over the top. It is considered, by all scientific persons who have inspected it, to be the best ever invented. It may be had in a highly ornamental form, or covered with papier mâché, china, &c.

No. 17.—Stocker's Patent Lift Pump, in Polished Brass, on a Mahogany Plank. It affords ready access to the valves, without disturbing the rising main, suction-pipe, or any of the gear-work. In the highly finished form in which the Patent Pump is here shown, it is used in Wine and Spirit Stores, in Mansions, and in any prominent position where the appearance of a common pump would be objectionable. It can be had, however, in a commoner form for ordinary purposes.

No. 18.—Stocker's Patent Tapping Cock, which cannot be injured by driving into the cask. It is more durable and convenient in use than the common tapping-cock.

No. 22.—A Hop Strainer, for soldering into the pipe. It prevents the Hops or other sediment from passing into the valves of the Beer Engine.

Larger Catalogues, with detailed descriptions, may be had on application to the above address.

STOCKER FRÈRES,

INGENIEURS HYDRAULIQUES, POTIERS D'ÉTAIN, ET POSEURS DE COMPTOIRS,

N^os^ 3 & 4, Arthur Street, New Oxford Street, à Londres.

LE SEUL PRIX DONNÉ À L'EXPOSITION DE 1851.

N° 1.—**Machine à Bière, perfectionnée et patentée, de Stocker.** Elle est surtout remarquable à cause du mouvement parallèle du piston, et de la facilité avec laquelle les soupapes jouent.

N° 2.—**Pompe à tasseaux** sur le même principe que la précédente, propre à être fixée contre un mur dans les serres-chaudes, les bâtiments extérieurs, les jardins, &c., pour porter l'eau, &c., jusqu'au haut d'une maison ou dans un jardin, dans une citerne, et pour tout autre besoin analogue.

N° 6.—**Pompe** sur le même principe, avec un cylindre en verre taillé.

N° 9.—**Comptoir de Marchand Cabaretier, patenté,** avec des coins arrondis. Il a des compartiments séparés pour la Bière et les Liqueurs. Le dessus du comptoir et le renfoncement au-dessous des robinets sont recouverts en étain. Les panneaux extérieurs sont portatifs, afin qu'on puisse approcher de la Machine et des tuyaux à liqueurs.

N° 11.—**Machine encaissée, patentée, de Stocker.** Elle n'a pas de tuyau pour faire mouvoir du haut en bas la poignée du levier; au lieu de cela le levier est courbe, et fonctionne à travers un trou rond, de telle sorte qu'il ne peut y avoir aucune ordure, sédiment, &c., dans le liquide. Elle est exposée dans une caisse en acajou: on peut la fixer au comptoir avec de belles moulures en acajou, en ardoise, en marbre, en étain, ou de toute autre espèce, placée à quelques pouces au-dessus du comptoir, comme on le voit dans la Machine à sept mouvements (N^os^ 9 et 10); ou tout-à-fait de niveau avec le comptoir, comme le montre la Machine à trois mouvements fixes (N° 9); ou pour que le levier fasse verser le liquide à travers le rebord du comptoir, comme dans la Machine à quatre mouvements fixes (N° 9.)

N° 13.—**Machine** construite sur le même principe que celle du N° 11; le levier joue sur le devant au lieu d'agir au-dessus.

N° 16.—**Machine en forme de pilier, patentée, de Stocker.** Elle a un mouvement parallèle parfait, la tige du piston étant creuse, et glissant le long d'une baguette fixe qui sert de guide, diminue essentiellement la pression sur la boîte rembourrée, et le liquide ne peut s'échapper par le haut. Tous les hommes de science qui l'ont examinée ont reconnu que c'était la meilleure qu'on ait inventée. On peut l'avoir avec des ornements très variés, recouverte en porcelaine, papier-mâché, &c.

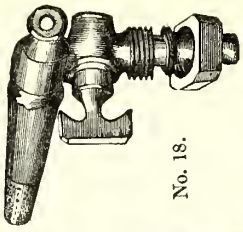
N° 17.—**Pompe à levier, patentée, de Stocker.** Elle est en cuivre poli sur une planche d'acajou. Elle permet aux soupapes de jouer sans déranger la Pompe aspirante, ou tout autre partie de l'appareil. La forme élégante sous laquelle se montre ici cette Pompe est adoptée dans les magasins de vins et de liqueurs, dans les grandes maisons et dans tous les endroits où une pompe commune serait déplacée. On peut cependant la fournir d'une forme plus simple pour les besoins ordinaires.

N° 18.—**Robinet patenté,** qui ne peut se gâter pour être enfoncé dans le tonneau. Il est plus durable et plus commode que le robinet en usage.

N° 22.—**Filtre à Houblon,** pour souder dans le tuyau. Il empêche le houblon ou tout autre sédiment de passer dans les soupapes de la Machine à Bière.

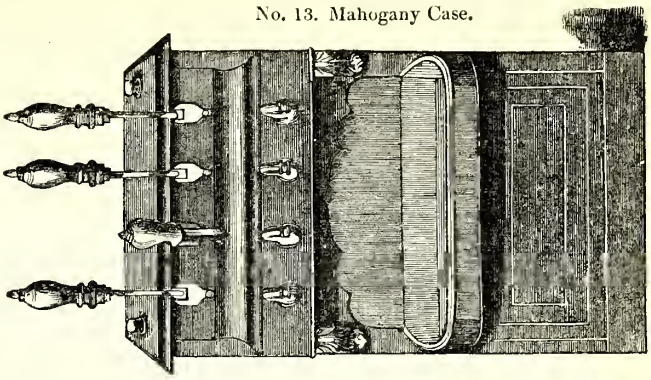
Des Catalogues plus complets avec des Descriptions étendues sont distribués à l'Adresse ci-dessus.

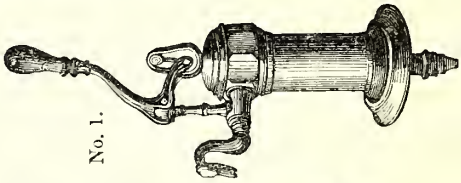
No. 22.



No. 18.

No. 13. Mahogany Case.





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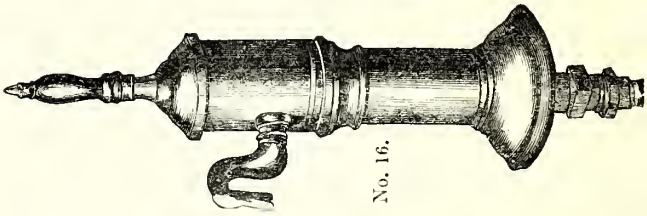

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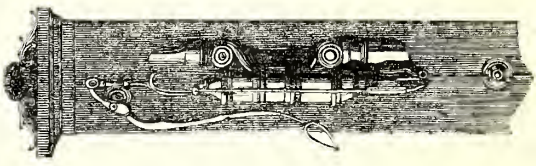

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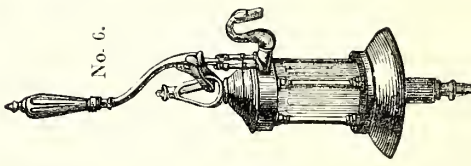
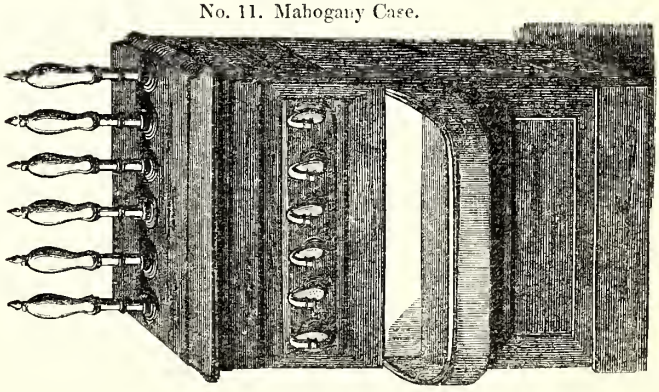


No. 6.

No. 11. Mahogany Case.



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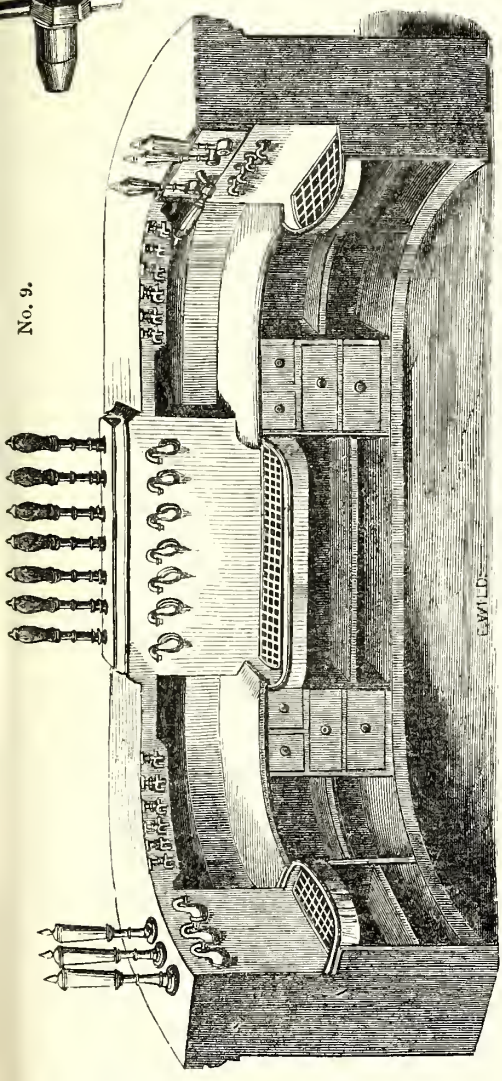
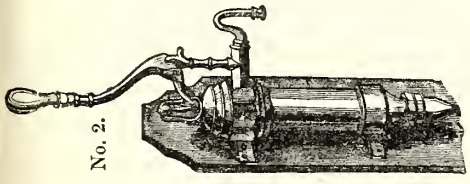


A Public House Counter, showing Stocker's Patent Beer Engine in three different forms (see description on facing page).



No. 2.

DANIEL FOXWELL,

FABRICANT DE CARDES,

À MANCHESTER.

Prix de Cardes pour Laine en Cuir.

NUMERO FRANÇAIS.	18	20	22	24	26	28
Plaques de Tambour, 28 pouces sur 4 p'ces 8 lig	5,60	5,70	6,00	6,30	6,60	7,10
Plaques de Volant, 28 pouces sur 4 p'ces 8 lig	5,90	6,10	6,40	6,70	7,00	7,50
Rubans de Tambour, 1 p'ce 10 lig. largeur par pied	87	90	96	1,01	1,06	1,11

Rubans d'entrée, pointes de diamant, 11 lignes de largeur 55 centimes par pied.

Prix de Cardes pour Coton en Caoutchouc Vulcanisé.

NUMERO FRANÇAIS.	18	20	22	24	26	28
Plaques de 28 p'ces sur 3, 9 lig	3,67	3,75	3,92	4,17	4,42	4,67
Idem 33½ „ 3, 9 lig	4,40	4,50	4,70	5,00	5,30	5,60
Idem 37½ „ 3, 9 lig	4,87	5,00	5,22	5,55	5,89	6,22
Rubans de 11 lignes de largeur par le pied	0,40	0,40	0,44	0,44	0,47	0,49
Idem de 1 p'ce 4 lig	0,53	0,55	0,57	0,59	0,66	0,71
Idem de 1 p'ce 10 lig avec intervalles	0,64	0,66	0,69	0,72	0,74	0,78

Prix de Cardes pour Coton en Gutta Percha.

NUMERO FRANÇAIS.	18	20	22	24	26	28
Plaques de 28 p'ces sur 3, 9 lig	3,00	3,17	3,42	3,67	3,92	4,17
Idem „ 33½ „ 3, 9 lig	3,60	3,80	4,10	4,40	4,70	5,00
Idem „ 37½ „ 3, 9 lig	4,00	4,22	4,55	4,87	5,22	5,55
Rubans de 11 lignes de largeur par le pied	0,32	0,32	0,35	0,38	0,40	0,42
Idem de 1 p'ce 4 lig	0,42	0,44	0,47	0,49	0,55	0,61
Idem de 1 p'ce 10 lig avec intervalles	0,53	0,55	0,59	0,62	0,64	0,67

Les dimensions et les prix sont en mesures et monnaie Français, et les envois se font rendus à Hull.

Le tout payable à trois mois, ou au comptant avec 5 % d'escompte.

THOMAS POWELL'S

DUFFRYN STEAM COAL,

CARDIFF, SOUTH WALES.

It is now universally admitted that the description of Fuel best suited for Steamers should possess the following properties, viz. :—

1. The power of evolving heat of great intensity with flame.
2. Great economy in consumption.
3. High specific gravity.
4. Freedom from smoke and clinkers.
5. *The non-liability to spontaneous combustion.*

All these requisites are combined in "Powell's Duffryn Steam Coal," which has been proved to be unrivalled for Marine Boilers of any description; but *especially for Tubular Boilers*, for which it is particularly adapted.

Its economy is so great, that a saving of 30 per cent. will be found where Newcastle or Scotch Coal is used, and from 15 to 20 per cent. over Steam Coal shipped at Newport, Monmouthshire, or any Ports in South Wales.

Dr. Ure, the celebrated Chemist, having analysed this Coal, describes it as the *most valuable* of the vast variety which had come under his notice: his report is annexed.

"Powell's Duffryn Steam Coal" is highly approved by the British and Foreign Governments, and is used in their Naval Steamers. A letter from the Storekeeper-General of the Admiralty, London, will be found herewith; also testimonials from some of the principal Steam Navigation Companies in the Kingdom.

The specific gravity of this Fuel being unusually high, the same weight of Coal occupies much less space than any other, which, added to its great durability, causes it to be much valued for Steamers going long voyages. It is also hard and compact, and is found to lose little or none of its effective power in transit to hot climates, or on exposure to the influence of the atmosphere; it is consequently in great demand for shipment to the West Indies, South America, and other distant parts of the world. The Atlantic Steam Ships are supplied with this Coal, viz. :—The British and North American Steam Navigation Company's Flotilla, the United States Mail Steamers (Collins's Line), &c. &c. Certificates of its quality when used in the Steam Ships "Pacific" and "Atlantic" are given. Captain Hosken, of the "Great Britain," and Captain Matthews, of the "Great Western," both write in the highest terms of this Fuel: their reports are also annexed.

The Lords Commissioners of the Admiralty, being convinced of the vast importance of ascertaining the comparative usefulness of the various descriptions of Coal in the Provinces of Great Britain, with a view to their consumption in our Naval Steamers, directed experiments to be made on a very extensive scale, at the Museum of Practical Geology, London, by Sir H. de la Beche, Dr. Playfair, &c., the reports of which have been presented to both Houses of Parliament by command of Her Majesty.

The **DUFFRYN COAL** has been proved to be of the **BEST** description for consumption in Steam Vessels, as respects economical combustion, the absence of clinker and smoke, and other important considerations, which will be found on reference to the *Extracts from the Report* on the next page.

[over.

POWELL'S DUFFRYN COAL.

	December 12th.
Fire Lighted	8h. 15m.
Steam up	9h. 20m.
Weight of Wood used	10 lbs.
Initial Temperature of Water in Boiler	209°
Temperature of Water in Tanks	33°
Barometer	....
Extremes of external Thermometer	....
Extremes of internal Thermometer	42—54°
Dew Point	.:..
Area of Damper open	112 in.
Weight of Coals consumed	321 lbs.
Weight of Ashes left	16·5 lbs.
Per Centage of combustible matter in Ashes	52·76
Weight of Cinder left	12·5 lbs.

	December 12th.
Per Centage of combustible matter in Cinder	89·74
Weight of Clinker in Cinder	None.
Average Weight of Soot in Flues	1 lb.
Per Centage of combustible matter in Soot	51·39
Weight of Water evaporated	2793 lbs.
Weight of Water evaporated from 212° by 1 lb. of Coal	**10·307** lbs.
Weight of Coals per Hour for 1 Square Foot of Grate Surface	8·01 lbs.
Duration of Experiment	8 hrs.
Specific Gravity of Coal	1·326
Mean Weight of Cubic Foot of Coal	53·22 lbs.
Economic Weight or Space occupied by one Ton	42·09 c.f.
Cohesive Power of Coal	56·2

EXTRACT FROM THE REPORT OF SIR H. DE LA BECHE AND DR. PLAYFAIR ON POWELL'S "DUFFRYN COAL."

"Our remarks during the trials show that it kindles very readily, and burns freely, raising the steam with great rapidity. It makes a remarkably clean fire, without any smoke, opening well on the bars, without caking. No clinkers were made. The ashes and cinders left were clean, and of a whitish colour."

The following is a letter from the Admiralty, intimating the approval of POWELL'S DUFFRYN STEAM COAL, *for use in Her Majesty's Steam Ships:—*

SIR, ADMIRALTY, 3rd January, 1845.

Referring to my letter of the 29th of April last, I have to acquaint you, in pursuance of the directions of the Lords Commissioners of the Admiralty, that favourable reports of the trial of your Duffryn Coals on board Her Majesty's Steam Vessels having been received, the "*Duffryn*" *will be included in the List of Coals supplied under the Naval Contracts.*

I am, Sir,
Your humble Servant,

Thomas Powell, Esq. (Signed) R. DUNDAS, Storekeeper-General.

"*Great Britain*" *Steam Ship, Liverpool, 14th February*, 1846.

I hereby certify, that I have found Powell's Duffryn Steam Coal *the best* I have yet used for Atlantic Steaming, being hard, strong, and durable Coal, making very little clinker, and easy on the fire-bars.

(Signed) JAMES HOSKEN, Commander.

"*Great Western*" *Steam Ship, Liverpool, 12th October*, 1845.

We, the undersigned, have much pleasure in recommending Powell's Duffryn Steam Coal. Having used it on board this vessel in competition with several descriptions of Welsh Coal, we find it possesses greater durability, and is more free from smoke and soot that any other Coal we have yet met with.

(Signed) B. R. MATTHEWS, Commander.
JOSEPH WILLIAMS, Engineer.

This is to certify, that we have used Powell's Duffryn Steam Coal in the "Swift" Steamer, running between this Port and Newport, and have found it superior to any other Coal for tubular boilers, with which this vessel is fitted, both from its economy and freedom from soot and smoke.

(Signed) JAMES PARFITT, Commander.
CHARLES MILLER, Engineer.

Bristol, August 2nd, 1845.

POWELL'S DUFFRYN COAL—Testimonials.

South-Western Steam Packet Company, Southampton, August 31st, 1844.

I hereby certify that, having sole management of the Steam Vessels belonging to this Company, and having tried several descriptions of Welsh Coal on the common and tubular boilers, none have been found equal to Powell's Duffryn Steam Coal, the saving of fuel being in both descriptions of boilers about *one-fifth* over that of any others that have been tried; that for tubular boilers I have frequently stated to other Coal proprietors, I have not found any equal to them in keeping the tubes and flues clean. I may further state that, in the consumption of about 5000 tons, I have found little or no variation in the quality of the several cargoes.

(Signed) N. M. PRIAULX, General Manager.

I hereby certify, that Powell's Duffryn Steam Coal was tried in three vessels belonging to the Peninsular and Oriental Steam Company, namely, the "Royal Tar," "Lady Mary Wood," and "Great Liverpool," and the reports from all these vessels were highly favourable as to its efficiency and economical combustion.

Given under my hand at Southampton, this 17th day of March, 1843.

E. S. KENDALL, Superintendent.

Having used Powell's Duffryn Steam Coal for the last seven months in the Steam Ship "Osprey," trading between Bristol and Waterford, we find a saving of at least from eight to ten tons per voyage in our consumption, over the Coal we formerly burnt.

The same fire-bars are now in use that have been from the commencement of our having the Duffryn Steam Coal, and are no more injured than they would have been had we used any other Coal.

(Signed) GEO. BURGESS, Commander.
JAMES HODGES, Engineer.

Bristol, 21st June, 1843.

Having used Powell's Duffryn Steam Coal on board the Steamer "Shamrock," I find that it possesses great power in generating Steam, *its durability is at least one-third greater than Scotch Coal*, it makes but few ashes, and does not clinker nor burn the bars.

RICHARD JONES, Commander of "Shamrock" Steamer.

Waterford, 8th October, 1852.

River Steamer's Office, Cork, 12th October, 1842.

I have used in our Steamers Powell's Duffryn Steam Coal, and I find it to be *at least one-third more durable than Scotch Coal*, of greater strength, and quite free from clinker.

JOHN D. DONEGAN, Agent to the River Steamers.

Liverpool, 15th October, 1850.

Having used Powell's Duffryn Steam Coal in the United States Mail Ship "Pacific," plying between Liverpool and New York, I have much pleasure in certifying that it is decidedly the best Steam Coal I have yet known, both from its durability and power of generating Steam. The "Pacific" having performed the last voyage from Liverpool to New York in ten days and four-and-a-half hours, being the shortest on record; which I partly attribute to the very superior quality of the Coal.

(Signed) G. NYE.

Liverpool, October 15th, 1850.

This may certify that I have been using Powell's Duffryn Steam Coal for the past six months on board the U. S. Mail Steamer "Atlantic," plying between this Port and New York, and without hesitation must say, on all occasions, have found the quality most excellent, and believe it to be equal, if not superior, to any Coal now used.

(Signed) J. W. ROGERS, Chief Engineer, Steam Ship "Atlantic.

[OVER.

Report of a Chemical Analysis and Practical Examination of a Sample of Coal, called

"POWELL'S DUFFRYN STEAM COAL,"

By ANDREW URE, Esq., M.D., F.R.S.,

Professor of Chemistry and Analytical Chemist.

This Coal has a glistening jet-black colour, a coarse-grained fracture, is compact, without being stony or dusty, and does not soil the fingers. Its specific gravity is 1·32, so that a cubic foot of it weighs 1,320 ounces avoirdupois, whilst a cubic foot of water weighs 1,000 ounces. It thus possesses a density intermediate between that of the bituminous Coal of Newcastle, and the Anthracite of Wales. It also possesses the best properties of each; for it burns with a bright flame and most intense heat, but without smoke; and is, for these reasons, a better fuel for Steam Navigation than even the Llangennech Coal used in the Government Steamers. It contains less sulphur than the said Coal.

Mr. Powell's Coal affords a clear, bright, and powerful fire in the parlour grate.

When it is incinerated in a platinum basin, at a red heat, it leaves only 2·6 per cent of a dark grey earthy residuum, which is about one-half the quantity left by good Newcastle Coal. One hundred parts of this Coal, on being strongly calcined in a close platinum crucible, emit 14 parts of gaseous products, and leave 86 parts of a brilliant and excellent Coke.

Of the vast variety of Coals which I have analysed, Mr. Powell's Duffryn Coal is the most valuable for the purpose of fuel, either in private houses or in public works.

ANDREW URE, M.D., F.R.S., &c. &c.

London, 13, *Charlotte Street, Bedford Square, Dec.* 1, 1842.

I hereby certify that Powell's Duffryn Steam Coal, of which I made an analysis in the year 1842, is *not liable to spontaneous combustion.*

London, April 9th, 1855. (Signed) ANDREW URE, M.D., F.R.S., &c.

Powell's Duffryn Steam Coal is shipped at Cardiff with extraordinary facility and despatch by means of Steam Machinery, which almost precludes breakage of the Coal—a Model of which was in the Exhibition of 1851, and is now in the Paris Exhibition.

DIRECTIONS.

The Duffryn Steam Coal should not be used in the furnaces of a greater thickness than five or six inches. The fire should not be stirred; but any accumulation of ashes on the bars should be removed by a hooked instrument from below.

The following Steam Packet Companies are supplied with

"POWELL'S DUFFRYN STEAM COAL,"

to whom Reference is made.

British and North American Royal Mail Steam Company, Liverpool.
British and Irish Steam Packet Company, London and Dublin.
Bristol Steam Navigation Company, Bristol.
Collins and Co.'s Steam Ships, New York and Liverpool.
General Steam Navigation Company, London, Brighton, etc.
James Hartley and Co., Steam Boat Proprietors, London.
London and Gravesend Steam Packet Companies.
Margate and London Steam Packet Company, Margate.
Ocean Steam Navigation Company, New York, Havre, and Bremen.
Pacific Steam Navigation Company, Liverpool.
Peninsular and Oriental Steam Navigation Company, London.
South-Western Steam Packet Company, Southampton.
St. George's Steam Packet Company, Cork and Bristol.
United States Mail Steamers, E. Collins & Company, New York, etc, etc.

CHARLES PARKER & SONS,

Engineers, Millwrights,

POWER-LOOM MANUFACTURERS,

And General Machine Makers,

IRON AND BRASS FOUNDERS,

Lady Bank Works, Dundee.

C. E. & C. PARKER, COUNCIL MEDAL OF THE EXHIBITION, CLASS VI.

ENGINES.

MAKERS OF CONDENSING, HIGH PRESSURE, PORTABLE, FIXED BEAM, HORIZONTAL, AND DIRECT ACTION STEAM ENGINES.

PRESSES, CRANES, MILLS, &c.

Metallic Spring Pistons, Water Valves, Hydraulic and Screw Presses, Double and Single Purchase Cranes and Grabs; Corn, Flour, Malt, Sugar, Lac, Bone, Indigo, Logwood, Oil and Saw Mills, Shafting and Gearing for Factories.

POWER-LOOMS, &c.

Parker's Patent Mathematical Power Loom, for Navy Sail-Cloth; and Parker's Patent Self-regulating Power Loom, for the General Linen Trade; with a variety of other Power Looms, for Linen, Cotton, and Woollen Fabrics; all descriptions of Starching, Winding, Beaming, and Pirning Machines, and Testing Machines for Navy Sail Cloth.

MISCELLANEOUS.

Force and Lift Pumps, Winding and Pumping Machines for Collieries, Water Wheels, Gas Works, Fire Proof Beams and Pillars, Cast and Malleable Iron Roofs, Bleaching and Finishing Machinery, Hot and Cold Calenders, Machine Makers' Tools, and every description of Flax and Tow-Machinery.

Plans and Specifications furnished for every description of Factory and Public Works.

M. SALT & SON,

Cutlers to Her Majesty the Queen of England,

AND

FOURNISSEURS TO HIS MAJESTY THE EMPEROR OF THE FRENCH,

SURGICAL INSTRUMENT MAKERS

TO THE HOSPITALS,

21, BULL-STREET, BIRMINGHAM.

SALT AND SON beg to direct the attention of the Medical Profession and the Public to their Case of Surgical Instruments in the Palais de l'Industrie.

THE IMPROVED ARTIFICIAL LIMB

is one of the greatest improvements of the day, the mechanism being reduced to the *minimum*, and the durability raised to the *maximum*.

THE NEW MILITARY TOURNIQUET

is adapted for every sized limb, may be instantly applied, and the artery effectually secured in one-sixth the time of any other. It dispenses with all kinds of straps and buckles, and is without detached parts.

THE COLLAPSING PESSARY

is recommended for its lightness, softness, elasticity, and may be inflated to any size after its introduction.

LAVEMENT APPARATUS.

No. 1. In White Metal, complete, 42*s*. per dozen.
2. In Brass, ditto, 50*s*. ditto.
3. „ no detached parts.
4. In German Silver.
5. In Brass, discharging the fluid in a continuous stream.
6. The smallest Enema known.
7. Plated Double Action.
8. Reservoir Enema.
9. Ditto in German Silver.
10. Percolator — removes any impurity from the fluid, and discharges the injection with one stroke of the piston.
11. German Silver ditto.
12. The Registered Spontaneous Enema Apparatus by the employment of compressed air administers an injection in a continuous stream, with any amount of regulated force, and without the necessity of working the piston during the operation.

TWELVE PATTERNS OF TRUSSES

for Hernia, comprising the latest Improvements, and Salt's Graduated Pressure Truss

No. 10, *adapted for the Working Classes*, 21*s. per Dozen.*

NEW TROCARS AND CANULAS

for Paracentesis Thoracis, invented by Dr. Bell Fletcher, and manufactured under his superintendence.

MANUFACTURERS OF SURGICAL APPARATUS,

And every Description of Splints, Bandages, Instruments for Club Feet, Artificial Hands, Arms, and Machines for every Kind of Bodily Deformity.

SUPERFINE LINT MANUFACTURERS,

21, BULL-STREET, BIRMINGHAM.

SALT & FILS,

Couteliers de Sa Majesté la Reine d'Angleterre,

ET

FOURNISSEURS DE SA MAJESTÉ L'EMPEREUR DES FRANÇAIS,

FABRICANTS DES INSTRUMENTS DE CHIRURGIE

POUR LES HOPITAUX,

21, BULL-STREET, BIRMINGHAM.

SALT ET FILS ont l'honneur de prier Messieurs les Médecins et le publique en général de vouloir bien accorder leur attention aux Instruments de Chirurgie qu'ils exposent au Palais de l'Industrie.

LE MEMBRE ARTIFICIEL PERFECTIONNÉ

est une des Inventions la plus remarquable du jour, le Mécanisme étant réduit au *minimum* et la durabilité élevé au *maximum*.

LE NOUVEAU TOURNIQUET MILITAIRE

peut servir pour membre de toute grosseur, peut être appliqué à l'instant, et l'artère arrêtée parfaitement dans un sixième du temps ordinaire. Il évite la nécessité de courroies et boucles, et n'a aucune partie détachée.

LE PESSAIRE GONFLÉ

pour Prolapsus Uteri, est recommandé pour sa légèreté, souplesse, et élasticité, et peut être gonflé à toute grandeur après ayant être introduit.

APPAREIL POUR LAVEMENTS.

No. 1. En Melchior, complet, 50 fr. la douzaine.
2. Cuivre „ 60 fr. „
3. „ articulé sans parties détachées.
4. Argent Allemand.
5. En Cuivre articulé sans parties detachées et ayant le courant regulier.
6. Le plus petit Enéma pour la poche.
7. Plaqué à action double.
8. Enéma à Réservoir.
9. Ditto en Argent Allemand.
10. "Percolator"—filtrant de toute impureté de la liquids, et décharge l'injection d'un coup du piston.
11. Ditto en Argent Allemand.
12. L'Enéma Spontané (Déposé), par l'emploi d'air comprimé on administre une injection de toute quantité à jet continue sans la nécessité de faire marcher le piston.

DOUZE ÉCHANTILLONS DES TROUSSES

pour Hernie, comprenant tous les derniers perfectionnements et la Trousse de Salt à pression graduée.

No. 10 *pour la Classe ouvrière à* 26 *fr. la douzaine,*

NOUVEAUX TROIS-QUARTS ET CANULES

pour l'opération de l'Empyème, inventé par le Docteur Bell Fletcher, et fabriqué sous sa surveillance personnelle.

FABRICANTS DE TOUT APPAREIL DE CHIRURGIE,

De toute Espèce des Appareils de Fractures, Bandages, Instruments pour les Pieds malformés, Mains et Bras artificiels, et Machines pour toute Difformité du Corps.

FABRICANTS DE CHARPIE SUPERFINE,

21, BULL-STREET, BIRMINGHAM.

W. & J. NOAK,

Salt Manufacturers,

DROITWICH, WORCESTERSHIRE,

Exhibitors of Specimens of Brine and Salt made from same,
Class 1. Section 9. No. 70.

ATTENTION is invited to the subjoined list of prices of Salt for Export and general consumption, manufactured from the purest known Brine Springs, unrivalled for their strength and inexhaustible supply, which, combined with an improved mode of manufacture, enables the Exhibitors to supply all descriptions of Salt at greatly reduced prices, viz. :—

Best Fine Table Salt	12*s.*	per ton.
Butter Salt	9*s.*	do.
Broad Salt	7*s.*	do.
Agricultural Salt	5*s.*	do.
Cattle Lickings	4*s.*	do.

From the connexion of the works with the best modes of transit, same can be delivered at the port of Gloucester at 3*s.* 6*d.* per ton extra, and at Bristol at 5*s.* 6*d.* per ton.

The value of Salt to the Agriculturist is great—it being the basis of all artificial manures; and the limited consumption in its natural state is owing to a want of knowledge of its properties, the most beneficial mode of application, and the difficulty of obtaining a regular and cheap supply. Its use as a manure chiefly consists in its properties of retaining muriate of ammonia, absorbing it from the atmosphere, and in the destruction of weeds and vermin, converting them into a rich manure. Land moderately dressed with Salt will produce an abundant crop of the finest quality—the weight of grain being heavier in proportion to the straw than from any other manure, especially on light soils. It is a direct food, and has great stimulating powers on all growing crops, imparting to the soil an increased power of absorbing the moisture of the atmosphere. It enters largely into the composition of the mineral matters of the turnip and other root-crops. It has been proved to very much avert the ravages of, if not entirely destroy, the wire-worm—a question too important to be neglected by the farmer.

Of the value of Salt to Live Stock there can be no doubt—there appearing an irresistible instinct in the animal which prompts it to seek it. M. Liebig in a recent work observes, "that phosphate of soda obtained from common salt is indispensable for the formation of blood, and when in inland countries the food does not contain common salt enough to produce phosphate of soda, more salt must be added, if the animal is to continue healthy."

The Advertisers are willing to give any further information, and to render large consumers every facility to obtain a supply of Salt for exportation or otherwise on the best terms.

Apply to

W. & J. NOAK,
Covercroft Salt Works, Droitwich,
Worcestershire.

JOHN POOLE,

CHRONOMETER MAKER,

TO THE RIGHT HONOURABLE THE BOARD OF ADMIRALTY,

57, FENCHURCH-STREET, LONDON.

WHOLESALE AND FOR EXPORT.

Inventor of an Improved Compensation Balance for equalising the Rates of Chronometers in the various Changes of Temperature.

JOHN POOLE

DIRECTS ATTENTION TO THE FOLLOWING TESTIMONIAL:—

(Copy.)

"Sir, "*Admiralty, 27th July*, 1854.

"The annual trial of Chronometers, for the use of Her Majesty's Government, having now terminated, I am commanded by my Lords Commissioners of the Admiralty to inform you that your Chronometer, No. 1585, is reported by the Astronomer Royal '*the first on the list, and the finest that has been on trial for many years*;' and I have therefore much satisfaction in offering you, by command of their Lordships, the sum of Seventy Pounds for it; not doubting that its success will stimulate you to produce others of still greater excellence hereafter.

"I am, Sir,

"Your obedient Servant,

(Signed) "F. BEAUFORT,

"To Mr. Poole, Chronometer-Maker." "Hydrographer.

The superior performance of J. Poole's Chronometers, made on his improved principle, has secured their purchase by Government, from the Admiralty Trials, in Ten instances since 1844.

POCKET CHRONOMETERS,

AND CHRONOMETRICALLY ADJUSTED

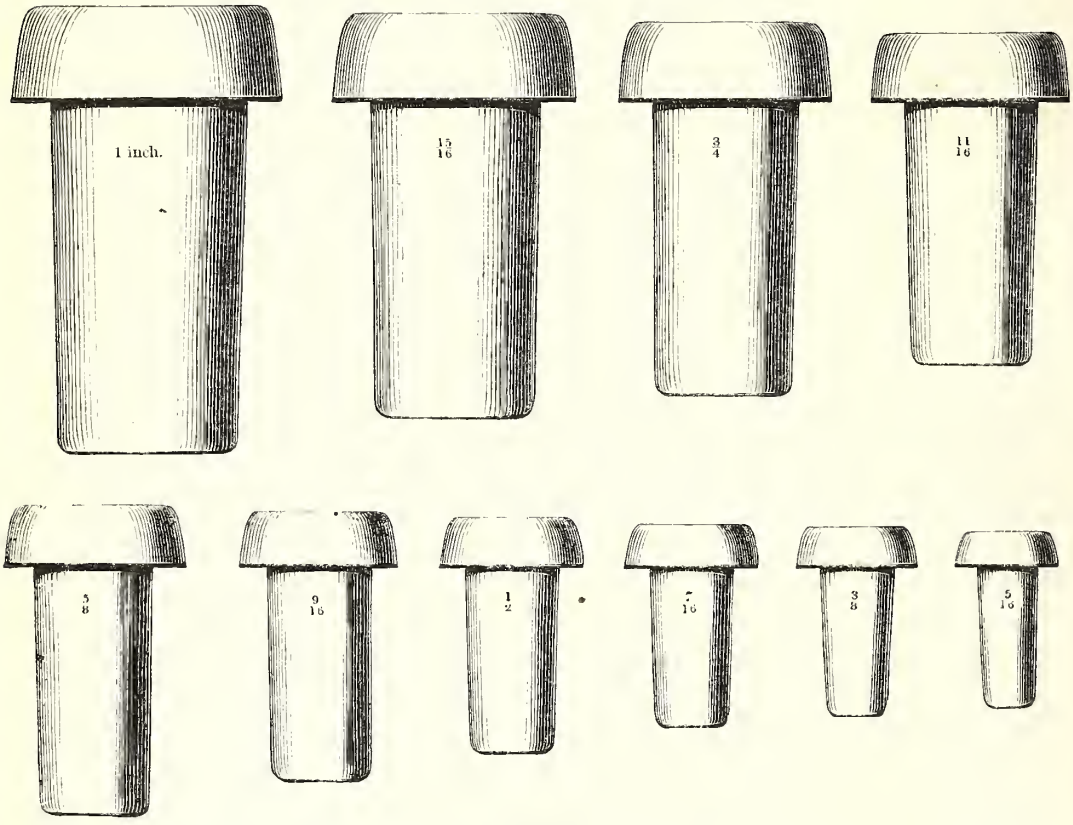
DUPLEX AND LEVER WATCHES OF SUPERIOR DESCRIPTION.

YORKSHIRE PATENT RIVET COMPANY,

For the Manufacture of Rivets and Bolts

FOR STEAM BOILERS, SHIPBUILDING, TANKS,

AND ENGINE WORK.



Paris Universal Exhibition, No. 530. Industrial Division, Class 6, Section 6.

These Rivets are made complete, in a self-acting machine, requiring no manual labour further than the attendance of one man to conduct the bars of iron from the door of the heating furnace into the feed-rollers of the machine.

The Undersigned are prepared to take orders for this Machine, of whom all information respecting it may be obtained.

JOSHUA BUCKTON & CO.

Well House Foundry, Leeds.

J. B. & Co. also receive orders for Rivets, and are prepared to state a price for them delivered at the Port of Hull or London.

To Engineers, Machine-Makers, &c.

JOSHUA BUCKTON & COMPANY,

WELL HOUSE FOUNDRY,

LEEDS.

Paris Universal Exhibition, No. 530. Industrial Division, Class 6, Section 6.

MAKERS OF EVERY DESCRIPTION OF

Engineers' and Machine-Makers' Tools,

LATHES, PLANING, BORING, SCREWING, SHAPING MACHINES, &c

Systems of Machinery suitable for

IRON SHIPBUILDING,

PUNCHING, SHEARING, DRILLING-MACHINES, AND PLATE-BENDING ROLLS.

Machinery adapted for

LOCOMOTIVE AND RAILWAY CARRIAGE BUILDING,

WHEEL AND AXLE BORING AND TURNING-LATHES,

AXLE-GROOVING MACHINES, AND HYDRAULIC PRESSES

For putting Wheels on or off their Axles, which may be fitted with Testing Apparatus for Carriage Springs.

WHEEL-CUTTING AND DIVIDING ENGINES,

TO WORK IN WOOD OR METALS,

With every description of Machinery on the most improved construction, for Use in Engineering Works.

EAGLE IRON-WORKS, NEWBURY, BERKS.

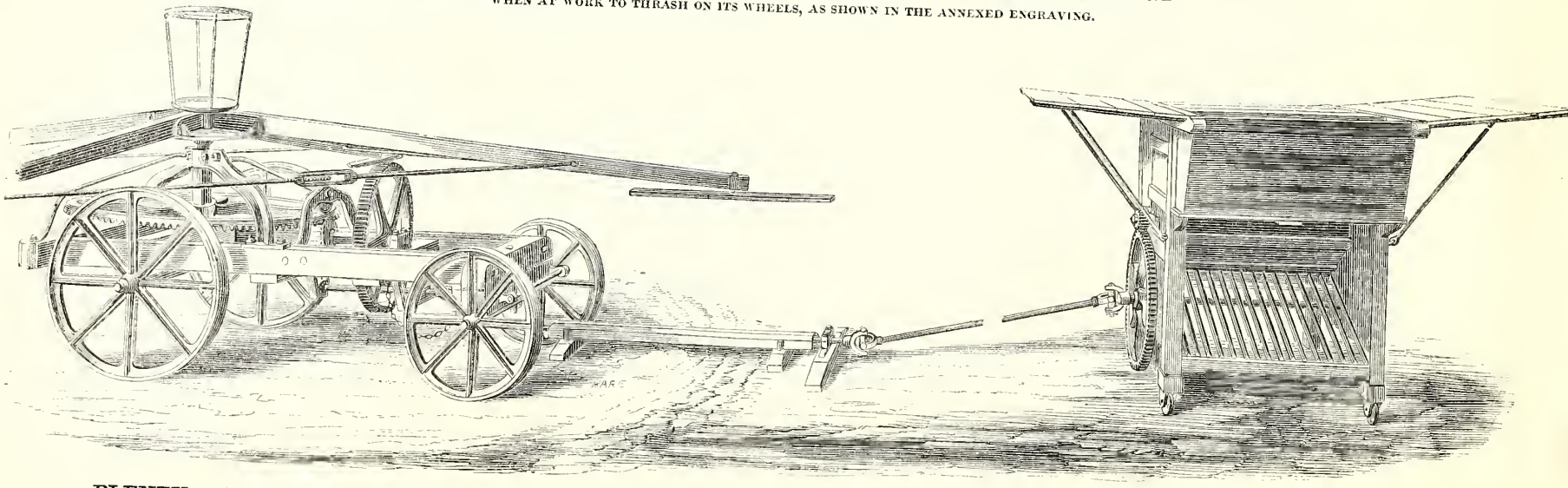
ESTABLISHED 1795.

PLENTY & PAIN,

Agricultural Machinists, Engineers, Smiths, Ironfounders, Millwrights, &c.

IMPROVED FOUR-HORSE POWER PORTABLE THRASHING MACHINE

WHEN AT WORK TO THRASH ON ITS WHEELS, AS SHOWN IN THE ANNEXED ENGRAVING.



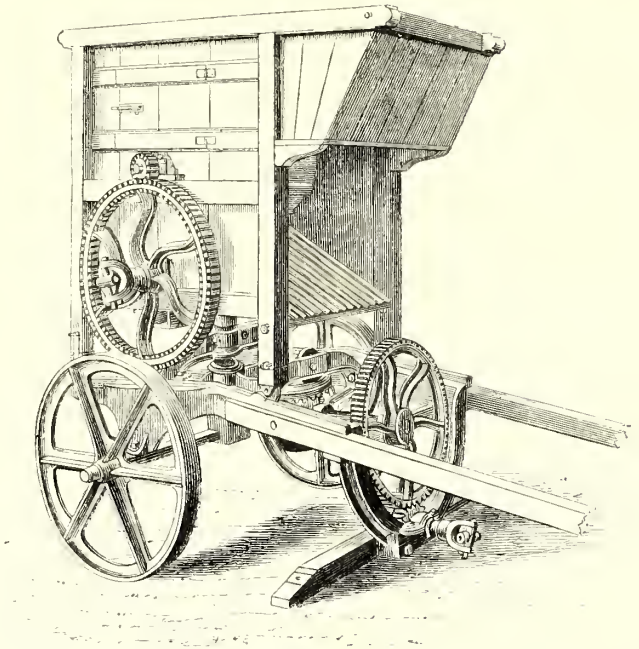
PLENTY and PAIN solicit the attention of Agriculturists to this particular department. Mr. PLENTY being the original Inventor of Machines on this principle, the advantage of which they can confidently recommend, as they are fast superseding, in the South of England, the old and cumbrous system of taking Machines off their wheels to work. When travelling, the inside work or thrashing part of the Machine is carried on the horse-work, being easily run up two of the levers by means of friction-wheels on the legs. The horse-wheel is accurately turned up to afford a true bearing for the friction-wheel. The whole is of simple construction, and being made of the best materials and workmanship, may be kept in repair at a very little annual cost.

Price £55.

PLENTY & PAIN'S

TWO-WHEEL PRIZE PORTABLE THRASHING-MACHINE.

HORSE-WORK ENTIRELY CONSTRUCTED OF IRON.



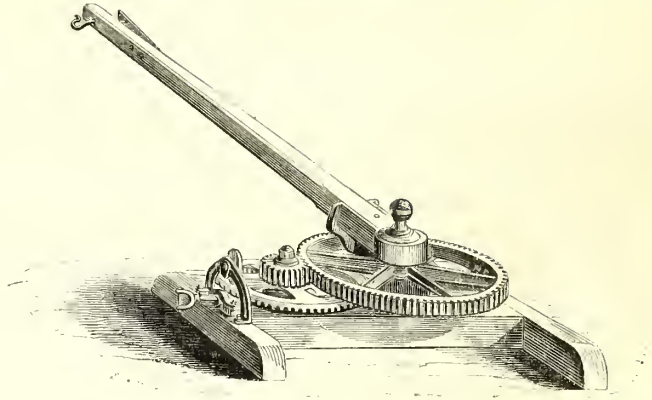
This truly useful Machine is recommended with the greatest confidence to those parties who may not require so large a one as the preceding. It gained the Prizes at the meetings of the ROYAL AGRICULTURAL SOCIETY and the ROYAL HIGHLAND SOCIETY, and from its portability, compactness, and performance is justly named a first-class Machine. It is made to thrash on its wheels as the large four-horse Machine.

Three-horse Power - - - - - - - -	£42
Four-horse ditto - - - - - - - - -	£48

PLENTY & PAIN'S

IMPROVED ONE-HORSE WORKS.

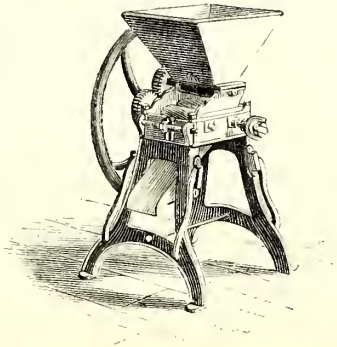
SUITABLE FOR DRIVING CHAFF-CUTTERS, CRUSHING MILLS, SMALL THRASHING-MACHINES, ETC.



Price - - - - - - - - - - - -	£10 10s.
Two-horse Power - - - - - - - -	£12 12s.

CRUSHING OR BRUISING MILL,

FOR BEANS, OATS, BARLEY, MALT, ETC.



The advantage of bruising Corn for Horses and Cattle is now so universally admitted, that a Mill of this kind is considered to be almost indispensable where the least economy is made a consideration on a Farm. The annexed woodcut represents a Mill, simple in construction, low in price, and of great efficiency and durability, mounted on a strong iron frame.

No. 1. Hand-power - -	£5 10s.
2. One-horse - - -	7 10s.
3. Extremely powerful	10 10s.
4. Common Bean-Mill on Iron Frame -	3 10s.
5. Ditto to post - -	2 10s.

JAMES HOWARTH, Class 21

PRIZE MEDAL OF THE EXHIBITION 1851

JAMES HOWARTH,

124, FITZWILLIAM STREET, SHEFFIELD,

MANUFACTURER OF

Engravers', Carvers', Print Cutters', Die Sinkers', Silversmiths', Turners' (Metal, Ivory, and Wood), Bookbinders', Joiners', Carpenters', Coopers', Gardeners', Shipwrights', and every variety of Light and Heavy

EDGE TOOLS,

COMPRISING

FIRMER CHISELS AND GOUGES, COACHMAKERS' CHISELS,

MODEL-MAKERS' CHISELS AND GOUGES, MILLWRIGHTS' CHISELS,

Mortice Chisels (Sash, Socket, Lock, and Machine), Plane Irons (Single, Cut, and Double), Socket Chisels and Gouges,

COOPERS' JOINTER IRONS, WHITTLES, DRAWING KNIVES, HOLLOWING KNIVES,

CARVERS' VEINING TOOLS,

Spoon Bit Chisels and Gouges, Fluting Gouges, Parting Tools, Skew and Square Carving Chisels and Gouges, Gravers of every Description. Scrapers, Burnishers, Screw Tools, Gun Stockers' Chisels and Gouges, Plasterers' Moulding Tools, Sculptors' Chisels, Mariners' Compass Needles, &c.

HAND-HAMMERED STEEL DRAWN TO ANY GAUGE.

AUGERS, BRUZZES, TAP BORERS, BUNG BORERS, TROWELS,

BILLS (TANG, SCALETANG, AND SOCKET),

GARDEN AND TURNIP HOES, RAKES, AXES, ADZES, HATCHETS, CHOPPERS, MINCING AND CHEESE KNIVES, SHIP SCRAPERS, &c.

Shoe, Cork, Curriers', Tanners', Skinners', and Saddlers' Knives,

Manufactured upon Practical and Scientific Principles, special regard being paid to Temper.

JAMES HOWARTH, 124, FITZWILLIAM STREET, SHEFFIELD.

JOINERS' TOOLS,

CONSISTING OF

Braces, Cast Steel Bits (Black, Bright, and Straw-Coloured),

Beech and other Hard Wood Spokeshaves and Spokeshave Irons,

TURNSCREWS, TURNING SAWS AND FRAMES, SQUARES, MITRE SQUARES,

BEVILS, BOAT-BUILDERS' BEVILS,

Gauges (Marking, Cutting, and Morticing), Saw Pads, Hand Pads, Saw Sets, Spirit Levels,

JOINERS' SCRAPERS, GIMLETS (SHELL, SCREW, AND SPIKE),

PLOW PLATES AND STOPS, SCREW BOXES, AND TAPS

COMPLETE.

WHEELERS' ROUNDERS, SKATES, &c.

Being made of Dry and Well-Seasoned Materials.

JAMES HOWARTH'S TOOL CHESTS,

Warranted to contain no Articles but what have been carefully Tested.

Joiners' and Cabinet Makers' Chests:
No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

Boys' Chests:
No. 1, 2, 3, 4.

Gentlemen's Chests:
No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

Carvers' Chests:
No. 1, 2, 3, 4.

Emigrants' Chests:
No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or to Order to suit any Country.

LADIES' OR GENTLEMEN'S BOTANIC CASES,

CONTAINING 15 PIECES FOR FANCY GARDENING,

With long and short Handle and Brass Socket, into which each Tool screws, as exhibited and greatly admired at the WORLD'S FAIR, 1851.

J. H. would call special attention to his solid Cast-Steel Vulcanized Plane Irons, being convinced that whoever uses will prefer them to every other kind.

N.B.—No Goods purporting to be James Howarth's Manufacture are Genuine unless Stamped with his *CORPORATE MARK*,

(to Imitate which is Felony), being his own Initials, surmounted by the Arrow Head.

J. H. WAS HONOURED WITH THE AWARD OF

THE PRIZE MEDAL

By the Jurors of the GREAT EXHIBITION OF ALL NATIONS, 1851, for the Superior Quality of his EDGE TOOLS.

Rotation No. in Catalogue, 396.

HOOPER & CO.,

(Late ADAMS & HOOPER,)

COACH BUILDERS TO HER MAJESTY THE QUEEN

OF ENGLAND,

THE ROYAL FAMILY, AND SEVERAL FOREIGN COURTS

HAYMARKET, LONDON.

Prize Medal and Special Approval awarded to H. and Co., at the

GREAT EXHIBITION IN LONDON, 1851,

For the elegance, good taste, and excellence of their Carriages.

H. & Co. beg respectfully to draw the attention of the Nobility and Gentry to the superior manufacture of their Carriages, as regards lightness of construction combined with strength, elegance of outline, and taste in the Equipments.

Drawings and Estimates for new Carriages are forwarded on application, as also Estimates for repairing Carriages, to include the entire outlay.

Parties preferring to job their Carriages by the year, or term of years, will find it a most convenient arrangement, as a Yearly Payment includes the use of a Carriage kept in good repair; an agreement can be made to purchase a Carriage taken on job, during the first year of the job.

A large Stock of neat and sound modern second-hand Carriages is always kept, either for Sale or to Let on Hire by the Week, Month, or Year.

H. & Co. undertake the repairing of Carriages, for which they have great facilities, in the arrangements of a new Factory recently built for them.

The Carriages built by H. & Co. are of the best manufacture, and at moderate Prices; Purchasers paying Cash will have the advantage of a Discount.

Merchants and Agents having foreign Orders to execute, are invited to apply to H. & Co. before executing their Commissions; they build Carriages suitable for all Climates, and on liberal Terms.

The Carriage contributed to the Paris Exhibition of 1855 is an "English Sociable" with head, hung on an iron perch with under and C springs and leather braces; combining very easy motion, with lightness of construction, and durability.

THOMAS GARFITT AND SON,

SHEFFIELD,

MANUFACTURERS OF

IMPROVED CAST-STEEL RIVETED PATENT AND HAMMERED

SCYTHES,

STRAW KNIVES, STRAW KNIFE-BLADES,

STRAW-CUTTING MACHINE KNIVES, PAPER KNIVES,

REAPING HOOKS, SICKLES, HOES,

IMPROVED CAST-STEEL ELASTIC HAY-FORKS, Etc.,Etc.

T. G. and Son having been engaged in the manufacture for twenty-five years, and being practical men, are enabled to produce articles of the very best quality, workmanship, and temper.

They especially call attention to their

IMPROVED PATENT SCYTHES,

which are warranted not to come loose at the points.

No goods purporting to be T. Garfitt and Son's manufacture, are genuine, unless stamped with their corporate-mark, which was granted by the Cutlers' Company, to imitate which is felony, and which consists of *Two Cross Scythes, surmounted by the figures* 1376.

MAGNUS'S ENAMELLED SLATE.

THE process of enamelling Slate, so as to represent Marble, Porcelain, &c., was discovered and patented by Mr. Magnus about sixteen years ago. At that period the use of slate was confined to the roofing of houses, shelving for dairies, flooring, and similar ordinary purposes. During the interval that has elapsed since the discovery constant improvements have been effected, and the productions of the Pimlico Slate Works have found their way into the palace of Her Majesty, the mansions of the nobility, and the principal public buildings; and have secured the patronage of almost every architect and builder of any note in the United Kingdom.

The Inventor has been honoured with the Medal of the Society of Arts, the Prize Medal of the Great Exhibition of 1851, and a host of written Testimonials.

Enamelled Slate surpasses marble greatly in durability and beauty, and is at the same time much less costly. It is applicable to a vast variety of purposes, and can be produced at a price to suit a cottage, or elaborated so as to grace a palace.

The following are some of the principal purposes to which Enamelled Slate is made applicable:—

TABLE TOPS.

In imitation of plain marbles, such as Egyptian, Irish, and Genoa Green, Lumachelle, Griotte, Jasper, Belgian, Black and Self Colours, Sienna, Black and Gold, Porphyry, various Granites, &c., either plain formed, circular, or shaped with moulded edges.

For Console Slabs, Chess Slabs, Occasional Table Tops, &c., elaborately decorated to resemble Porcelain, and in imitation of Florentine Mosaics, &c. &c.

CHIMNEY-PIECES.

In every variety of form and ornamentation, from a few shillings in price up to the most costly description for the cottage and for the palace.

STOVES.

The open stove, or "*Cabinet-formed Fire-place*," recently invented by Mr. Magnus, is decidedly the most novel, elegant, economic, and comfortable fire-place that has ever been introduced to the public. It stands *before* the usual opening for a fire, projecting into the room as a regular cabinet. It moves readily on castors, is lined with fire-stone, and has hot-air chambers. The fire is open, and the surfaces that radiate the heat are fire-stone and slate only. By the economic, who dislike to have half the heat of the coals wasted in the chimney, and by persons of taste, who object to the stiff unmeaning chimney-pieces in ordinary use, the "*Cabinet-formed Fire-place*" has only to be seen to insure its adoption.

BATHS.

From the plainest form to the most elaborate, including Linings for the Walls, Steps, Pilasters, Columns, &c., &c., in a style of luxury not to be surpassed.

WASHSTAND TOPS.

Of all colours, forms, and sizes.

DOOR FURNITURE.

Door Knobs, Shutter Knobs, Finger Plates, Keyhole Covers, &c., as Porcelain, Marble, and in various styles of decoration to suit the other fittings of an apartment.

BILLIARD TABLES.

The legs and frames of these Tables, as well as the beds, are of slate.

These Tables combine the nicest accuracy of workmanship, with the chastest elegance of design, and possess all the qualities that are esteemed by the scientific player—

1st. Perfect truth of bed (*planed by Steam Power at the manufactory, and most carefully rubbed, levelled, and jointed by experienced hands*).

2nd. Mathematical precision of angles and pockets.

3rd. Critical truth and nicely-adjusted bevel of cushions, superior speed, and two other advantages that are rarely attained, being generally deemed antagonistic, viz.—low cushions and no hopping of balls.

4th. A Frame that will not warp in any climate, alike unaffected by damp, heat, or cold; easily fixed or taken asunder, capable of being got up in a style suitable for the palace, or with equal correctness in a plain style, not exceeding in price that of an ordinary Billiard Table with Mahogany Legs.

The superiority of these Billiard Tables over all others is put beyond question by the fact of their being honoured with a place in the Drawing-Rooms of OSBORNE and STRATHFIELDSAYE.

VASES, PEDESTALS, &c., &c.

Slate is made into a vast variety of minor articles of ornament and use, as Pen Trays, Brackets, Picture Frames, Clock Stands, Plinths, &c., &c.

HEADSTONES, MONUMENTS, TOMBS, MURAL TABLETS, ALTARS, &c.

Illuminated Altar Tablets, complete Altars, with steps, risers, &c.

EXTRACT from the REPORTS by the JURIES at the EXHIBITION of the WORKS of INDUSTRY of ALL NATIONS, 1851 (*page* 571).

ORNAMENTAL SLATE.

"The only exhibitor of this kind, whose works can be described as extremely beautiful and worthy of detailed notice, is Mr. Magnus, of Pimlico, who, by means of a new, very simple, and inexpensive process, has succeeded in producing works of great magnitude and importance, calculated to effect the introduction of slate for household purposes on a very extensive scale. * * * * In point of execution, both mechanical and artistic, the greatest possible credit is due to this exhibitor. He has produced a vast variety of articles, many of which are now in common use; and in all, the price is so very much less than the substance imitated, and even of any other imitation that can at all compete with it, as to insure a large and permanent demand from the public. * * * * The most remarkable object exhibited by Mr. Magnus, is a Bath-room of large dimensions, good design, and great beauty, wholly manufactured of decorated slate. The peculiar effect of the slate, as enamelled for use, is perfectly well shown in this specimen, which has received the careful attention of the jury.

"Of all the objects manufactured by this exhibitor, the Billiard Table is perhaps the most important as being decidedly superior to Tables constructed of any other material. Slate for the bed of the tables has been employed for some time, but as its weight caused the mahogany legs to become rickety, slate legs and frames have now been introduced by the exhibitor, which, being dovetailed together, the use of iron is avoided, and the tables are steady and durable.

"To this exhibitor the jury have had no hesitation in awarding the prize medal in acknowledgment of his admirable and useful contrivances and applications."

Price Lists may be had on application to MR. MAGNUS, *at the Manufactory*, 39 *and* 40, *Upper Belgrave Place, Pimlico.*

STEPHEN GREEN,

IMPERIAL POTTERIES, LAMBETH, LONDON.

EXTRACT (*see Jurors' Report, Class XXV., page* 541).

"STEPHEN GREEN and Co., Lambeth. This firm exhibits some very remarkable specimens of Stoneware, of great size, designed for the use of Breweries, Distilleries, &c., and which, on account of their hardness of glaze and other qualities, are of great value in many processes of chemical manufacture." The Jury have awarded a Prize Medal.

EXTRACT (*see Jurors' Report, Class XXVII., page* 583).

"Although by the decision of the constituted authorities, the Medal which has been awarded to Messrs. Stephen Green and Co., in Class XXVII., has been withdrawn in favour of the similar honour awarded by the Jury of Class XXV., the author of the present Report cannot pass on to other Exhibitors without giving some account of the objects which chiefly attracted the attention of his Jury. These are the large Jar, the Condensers, the Air-tight Stoppers, and the Acid-pump, exhibited within the Building, and the whole apparatus of the Retort placed outside. The Coudensers are not only large, but perfect; and the Spherical Stopper and Valve are so ground as to be perfectly air-tight, and must be regarded as an admirable and most useful contrivance. The Jar is perhaps the largest piece ever manufactured in this ware." The Jury noticed with great commendation the care and attention bestowed by these Exhibitors on chemical and other apparatus.

STONEWARE CHEMICAL APPARATUS PRICE LIST.

RECEIVERS, STILLS, PANS, STORE JARS, &c.

To 20 gallons, 1/ per gallon. Larger sizes, on every gallon in excess of 20 gallons add 1/6 per gallon; thus a 20 gallon will be 20/, 21 gallons 21/6.

STILL HEADS.

1/2 per inch, measured where they fit upon the Still (out to out).

CONDENSING-WORMS.

No. 1.—18 in.	high, 9 in.	diameter,	$\frac{5}{8}$ in.	bore,	10/ each.
2.—25	„ 14	„	$\frac{3}{4}$	„	1/1/ „
3.—30	„ 18	„	1	„	2/2/ „
4.—40	„ 24	„	$1\frac{1}{2}$	„	3/3/ „
5.—45	„ 26	„	2	„	4/4/ „
6.—50	„ 27	„	$2\frac{1}{2}$	„	5/5/ „
7.—54	„ 28	„	$3\frac{1}{2}$	„	6/6/ „

STONE COCKS.

$\frac{1}{4}$-in. bore, 2/ each. $\frac{1}{2}$-in. 2/6. $\frac{3}{4}$-in. 4/. 1-in. 7/6. $1\frac{1}{4}$-in. 10/6. $1\frac{1}{2}$-in. 15/. 2-in. 25/. $2\frac{1}{2}$-in. 40/.
Grinding Cocks into Vessels, 1/ each.

EVAPORATING DISHES.

1 to 10 inches, /$1\frac{1}{2}$ per inch. 10 to 15, /2. 15 to 18, /3. 18 to 25, /4. 25 to 30, /6.

VITRIFIED TUBING TO ORDER.

1-in. bore, /6 per foot. 2-in. /7. 3-in. /8 4-in /9. 5-in. /10. 6-in. 1/. One foot charged extra for each Elbow or Joint.

FALSE ARMS.

12 in. long, 1/ each. 16 in. 2/. 20 in. 2/6. 24 in. 3/. 30 in. 3/6. 36 in. 5/.

DIP ARMS.

12 in. long, 1/6 each. 16 in. 2/6. 20 in. 3/. 24 in. 4/. 30 in. 5/. 36 in. 6/. 48 in. 8/. 60 in. 10/.

CONNECTING PIPES.

Clay lute, $2\frac{1}{2}$-in. bore, 2/6 each. 3-in. 3/6. 4-in. 5/. Water lute, $2\frac{1}{2}$-in. 3/. 3-in. 4/. 4-in. 5/.

ACID JUGS.

1 pint, 3/ per dozen. 1 quart, 4/. 3 pints, 6/. 2 quarts, 7/. 3 quarts, 8/. 1 gallon and upwards, /10 per gallon.

RETORTS TUBULATED.

1 quart, 1/ each. 2 quarts, 2/. 3 quarts, 2/6. 1 gallon, 3/6. 2 gallons, 5/. Above 2 gallons, add 1/6 per gallon.

LADLES AND TAPER OR BOWL-SHAPE FUNNELS.

$\frac{1}{2}$ pint, 4/ per dozen. 1 pint, 6/. 1 quart, 8/. 3 pints, 10/. 2 quarts, 12/. 3 quarts, 15/. 1 gallon, 18/. 2 gallons, 36/.

IMPROVED FILTERING FUNNELS.

$\frac{1}{4}$ pint, /4 each. $\frac{1}{2}$ pint, /5. 1 pint, /6. 1 quart, /9. 3 pints, 1/. 2 quarts, 1/3. 3 quarts, 1/6. 1 gallon, 2/.

INFUSION JUGS AND MUGS,

with Double Strainers.

1 pint, /9 each. 1 quart, 1/. 3 pints, 1/6. 2 quarts, 2/. 3 quarts, 2/6. 1 gallon, 3/6.

ALEMBIC HEADS, 8/ each.

SUBLIMATE POTS, 12/ each.

Covers to ditto, 10/6 each.

PATENT JARS,

Spherically Ground, with Stoppers, Air tight and Improved, Metal Fastenings.

$\frac{1}{2}$ pint, 7/ per dozen. 1 pint, 9/. 1 quart, 10/. 3 pints, 12/. 2 quarts, 15/. 3 quarts, 18/. 1 gallon, 21/. 6 quarts, 24/. 2 to 6 gallons, 1/3 per gallon.

PATENT JARS, Wide Mouth and Air-tight.

This article is invaluable for preserving Extracts and all articles acted upon by the atmosphere.

$\frac{1}{2}$ pint, 9/ per dozen. 1 pint, 12/. 1 quart, 15/. 3 pints, 18/. 2 quarts, 21/. 3 quarts, 24/. 1 gallon, 30/. 2 gallons, 60/.

BUNG JARS.

$\frac{1}{4}$ pint, 1/3 per dozen. $\frac{1}{2}$ pint, 1/6. 1 pint, 2/. 1 quart, 3/. 3 pints, 4/. 2 quarts, 5/. 3 quarts, 6/. 1 gallon, 7/. Above 1 gallon, /6 per gallon.

DRUGGIST POTS (16 oz. to 1 lb.)

1 oz. /8 per dozen. 2 oz. /10. 3 oz. 1/. 4 oz. 1/3. 6 oz. 1/5. 8 oz. or $\frac{1}{2}$ lb. 1/6. 10 oz. 1/8. 12 oz. 1/10. 1 lb. 2/. 2 lbs. 3/. 3 lbs. 4/. 4 lbs. 5/. 6 lbs. 2/. 8 lbs. 7/.

BOTTLES (Can Shape).

1 quart, 3/ per dozen. 2 quarts, 5/. 3 quarts, 6/. 1 gallon, 7/. 2 gallons, 14/. 3 gallons, 21/. 4 gallons, 28/. 5 gallons, 35/. 6 gallons, 42/.

BOTTLES (Can Shape),

Stoppered Air-tight, for Exporting Acids.

1 quart, 6/ per dozen. 2 quarts, 9/. 1 gallon, 12/. 6 quarts, 16/. 2 gallons, 20/. 3 gallons, 28/. 4 gallons, 36/. 5 gallons, 44/. 6 gallons, 52/.

SHOP POTS (for Tin Covers).

$\frac{1}{2}$ pint, 3/ per dozen. 1 pint, 3/6. 1 quart, 4/6. 3 pints, 6/. 2 quarts, 7/. 3 quarts, 8/6. 1 gallon and upwards, /10 per gallon.

BUCKLE'S PATENT LEECH JAR,

Fitted with Air-tight Cover.

No. 3 size, 2/ each. No. 2, 5/6. No. 1, 11/.

AYLIEFF'S PATENT PERCOLATOR,

Fitted with Air-tight Cover, for making Medicinal Tinctures, &c. by Displacement.

$\frac{1}{2}$ gallon, 12/ each. 1 gallon, 16/. 3 gallons, 30/.

QUICKSILVER BOTTLES.

1 lb. 8/ per gross. 2 lbs. 10/. 3 lbs. 12/. 4 lbs. 14/ 5 lbs. 16/. 6 lbs. 18/. 7 lbs. 20/.

TINCTURE JARS,

Fitted with Plate, perforated, and Air-tight Cover.

2 quarts, 2/6 each. 1 gallon, 3/6. 2 gallons, 5/.

CARBOY STOPPERS, 3/6 per hundred.

GENERAL STONEWARE PRICE LIST.

PATENT JAM JARS,

Spherically Ground, suited for Exporting all Articles acted upon by the Atmosphere.

1 lb. 5/6 per dozen. 2 lbs. 6/6. 3 lbs. 8/. 4 lbs. 9/6. 6 lbs. 11/.

JAM JARS,

Of Various Patterns and of Superior Quality.

½ lb. 1/ per dozen. 1 lb. 1/6. 2 lbs. 2/6. 3 lbs. 3/6. 4 lbs. 4/6. 6 lbs. 6/.

BUNG JARS,

Cased in Brown Wicker, for Butter, &c.

1 gallon, 1/ each. 6 quarts, 1/4. 2 gallons, 1/8. 10 quarts, 2/. 3 gallons, 2/3. 4 gallons, 2/10. 5 gallons, 3/6. 6 gallons, 4/6.

MUSTARD JARS.

4 lbs. 5/ per dozen. 7 lbs. 7/.

COMMON COVERED JARS,

For Tripe, Lime, Orchill, &c.

1 gallon, /7 each. 6 quarts, /10½. 2 gallons, 1/2. 3 gallons, 1/9. 4 gallons, 2/4. 5 gallons, 2/11. 6 gallons, 3/6.

COMMON COVERED JARS,

Cased in Brown Wicker.

1 gallon, 1/3 each. 6 quarts, 1/6. 2 gallons, 1/9. 3 gallons, 2/6. 4 gallons, 3/3. 5 gallons, 4/. 6 gallons, 5/.

COMMON COVERED JARS,

Cased in White Wicker.

1 gallon, 1/3 each. 6 quarts, 1/8. 2 gallons, 2/. 3 gallons, 2/9. 4 gallons, 3/6. 5 gallons, 4/3. 6 gallons, 5/.

BOTTLES,

Cased in Brown Wicker.

1 gallon, 1/ each. 6 quarts, 1/4. 2 gallons, 1/8. 10 quarts, 2/. 3 gallons, 2/3. 4 gallons, 2/10. 5 gallons, 3/6. 6 gallons, 4/6.

BOTTLES,

Can Shape, for Distillers, Spirit Merchants, &c.

2 quarts, 5/ per dozen. 1 gallon, 7/. 2 gallons, 14/. 3 gallons, 21/. 4 gallons, 28/. 5 gallons, 35/. 6 gallons, 42/.

FLAT OR SQUARE BOTTLES.

¼ pint, 2/ per dozen. ½ pint, 2/6. 1 pint, 3/6. 1 quart, 4/6. 3 pints, 6/. 2 quarts, 8/. 3 quarts, 9/. 1 gallon, 10/.

BOTTLES

Can Shape, for Distillers, Spirit Merchants, &c., Cased in best White Wicker, with Metal Legs, to prevent the bottoms of the baskets rotting in Cellars.

½ gallon, 1/ each. 1 gallon, 1/3. 2 gallons, 2/. 3 gallons, 2/9. 4 gallons, 3/6. 5 gallons, 4/3. 6 gallons, 5/.

BOTTLES FOR PORTER, ALE, &c.

1 quart, 30/. 6 to gallon, 24/. 1 pint, 20/. 12 to gallon, 18/.

GINGER BEER BOTTLES, 10/6 per gross.

INK BOTTLES.

1 oz. dwarfs, 2/6. 2 oz. ditto, 3/.

1 oz. 4/. 2 oz. 5/. 3 oz. 6/6. 4 oz. 7/6. 5 oz. 8/. 6 oz. 9/. 8 oz. 10/6. 10 oz. 12/. 12 oz. 13/. 16 oz. 16/. 20 oz. 18/. 24 oz. 24/. 32 oz. 27/. 40 oz. 30/.

BARRELS FOR SPIRITS, &c.

Round Plain.—1 to 20 gallons, 1/ per gallon; above 20 gallons add /6 per gallon extra.

Round Lettered, and with Arms.—1 to 6 gallons, 1/2 per gallon; on every gallon in excess of 6 gallons up to 20 gallons, 1/6 per gallon.

Oval Lettered, with Arms.—1 to 10 gallons, 1/6 per gallon; on every gallon in excess of 10 gallons 1/9 per gallon.

WATER PITCHERS.

3 pints, 4/ per dozen. 2 quarts, 5/. 3 quarts, 6/. 1 gallon and upwards, /7 per gallon.

JUGS AND MUGS (Plain).

½ pint, 2/ per dozen. 1 pint, 3/. 1 quart, 4/. 3 pints, 6/. 2 quarts, 8/. 3 quarts, 10/. 1 gallon, 12/.

COMMON STONE HUNTING JUGS AND MUGS.

¼ pint, 3/ per dozen. ½ pint, 4/. 1 pint, 6/. 1 quart, 9/. 3 pints, 14/. 2 quarts, 20/. 3 quarts, 30/. 1 gallon, 42/.

FINE WHITE HUNTING JUGS AND MUGS.

¼ pint, /4 each. ½ pint, /6. 1 pint, /9. 1 quart, 1/. 3 pints, 1/6. 2 quarts, 2/. 3 quarts, 3/. 1 gallon, 4/.

SNUFF JARS (for Japan Covers).

½ pint, 2/ per dozen. 1 pint, 3/. 1 quart, 4/. 3 pints, 5/. 2 quarts, 6/. 3 quarts, 7/6. 1 gallon and upwards, /9 per gallon.

SHOP POTS (for Japan Covers).

½ pint, 3/ per dozen. 1 pint, 3/6. 1 quart, 4/6. 3 pints, 6/. 2 quarts, 7/. 3 quarts, 8/6. 1 gallon and upwards, /10 per gallon.

With Arms and Labels, 1/ per dozen extra.

COVERED PIPKINS, FOUNTAINS, AND FUNNELS

½ pint, 4/ per dozen. 1 pint, 6/. 1 quart, 8/. 3 pints, 10/. 2 quarts, 12/. 3 quarts, 15/. 1 gallon, 18/. 2 gallons, 36/.

HAM, TONGUE, AND COVERED BREAD PANS.

/10 per gallon to 6 gallons. 1/ per gallon to 12 gallons.

SPITTOONS.

Open, 6/ per dozen. Plain, 8/. Figured, 10/.

FILTERS,

Fitted in Plain Vase, Descension principle.

No. 1, 5/6 each. No. 2, 7/6. No. 3, 9/. No. 4, 11/6. No. 6, 14/. No. 9, 20/. No. 12, 24/.

FILTERS,

Fitted, Ascension principle, superior article.

No. 1, 7/ each. No. 2, 9/. No. 3, 12/. No. 4, 14/. No. 6, 18/. No. 9, 24/. No. 12, 32/.

FILTERS,

Fitted, Basketed for Emigrants and Ships' use.

No. 0, 7/6 each. No. 1, 9/. No. 2, 10/6. No. 3, 12/. No. 4, 14/. No. 6, 16/. No. 9, 20/. No. 12, 25/.

PRINTING NAME AND ADDRESS.

To 1 quart inclusive, /1 per dozen. To 1 gallon inclusive, /3. Above 1 gallon, /6 per dozen.

SANITARY TUBES, BENDS, JUNCTIONS, TRAPS OF EVERY DESCRIPTION.

WATER-CLOSET PANS, 5/6 each (of every shape), with White Glaze inside.

STEPHEN GREEN'S PATENT SELF-ACTING FLUSHING WATER-CLOSET, complete in itself, 5/5/ each.

Testimonials as to its Efficiency.

GENTLEMEN,

I HAVE much pleasure in giving my testimony in favour of your Patent Syphon Flushing Basin, with Self-acting Closet Connections. There are several fixed here, which have been in use for upwards of twelve months, giving perfect satisfaction.

Royal Arsenal, Woolwich, June 24, 1852.

I am, Gentlemen,
Your obedient Servant,
WILLIAM CARTWRIGHT.

GENTLEMEN,

SIXTEEN of your Closets having been put into operation at Christ Church College, I have great pleasure in giving you my testimony as to their efficiency and simplicity.

Oxford, November, 1849.

HENRY J. UNDERWOOD, Architect.
R. S. HOGGAR, Engineer.

Illustrated Price Lists may be obtained free on application at the Works, Imperial Potteries, Lambeth, London.

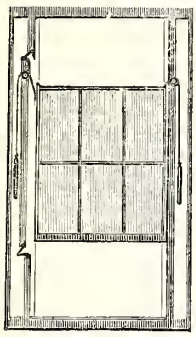
GRIBBON'S

SAFETY WINDOW-FRAME HANGINGS,

APPLICABLE TO BOTH OLD AND NEW WINDOWS.

By means of which the Sashes may readily be lifted out and the Cords be unfastened, for the purpose of permitting of the Painting, Cleaning, or Repairing of the Windows, thereby rendering it unnecessary to stand outside, as is now done, or to disfigure or injure the Woodwork by the removal of the Beads.

These Hinges and Cord-holders (for use in connexion with the Ordinary Lines, Pulleys, and Weights) may be had at 3*s.* per set, from DEAN, DRAY, and Co., London Bridge, London, and from most Ironmongers; and can readily be fixed by any Carpenter.



EDWARD P. GRIBBON,

ARCHITECT, PATENTEE,

1 *D'Olier Street, and* 61 *Lower Gardiner Street, Dublin.*

From the many expressions of approval which have been received from eminent architects, the following, from Professor DONALDSON, has been selected :—

Bolton Gardens, Russell Square,
18*th October*, 1854.

DEAR SIR,

I HAVE been much pleased with your very ingenious system of Sash-hanging, which is very simple and effective, and I heartily wish you success in the application of your valuable apparatus.

Believe me, very sincerely, yours

THOMAS L. DONALDSON.

E. P. Gribbon, Esq.,
Architect.

HARDWARE,

MANUFACTURED OR PREPARED BY

MORETON AND LANGLEY,

WOLVERHAMPTON,

AND

22 BUSH LANE, CANNON STREET, LONDON.

Anvils, warranted
Augers, Ship and House
Awl Blades
Axes, all patterns
Bolts, Common and best Door, Barrel, Spring and Spanish long tail
Buckles, Harness, Tinned, Brass, and Plated
Bed Hooks and Eyes
Bullet Moulds
Bitts for Horses, English, Brazilian, Spanish, and Chilian patterns
Braces and Bitts
Centre Bitts
Bellows, House and Smiths'
Bone and Wood Turnery
Bells, Dinner, House, Tea, and Cattle, of all patterns
British Plate Goods
Electro Plated do.
Britannia Metal do.
Cast Brass Foundry. Stamped do.
Brushes, House, Horse, Paint, Deck, &c.
Castors, Iron and Brass
Coach Wrenches
Candlesticks, Iron and Brass
Cruet Frames
Copper Tea Kettles
Curtain Rings
Chair Web
Coffin Furniture
Brass Cocks
Corkscrews
Cooks' Ladles
Do. Tormentors
Ship Cutlasses, Matchetts, &c.
Fire Irons
Compasses, Carpenters', Iron and Brass
Coal Scoops and Hods
Cinder Sifters
Chest Handles, Com. and Impd.
Curry Combs
Curbs for Bridles
Chains, Cable, Boat, Ox, Trace, Backbands, Dog and Horse Chains
Fire Baskets
Fenders, of all sorts
Files and Rasps
Fish-hooks
Frying Pans
Gridirons
Garden Tools
Gimblets
Guns, Ship Muskets, &c.
Glass Paper
Hammers, Kent, Shoe, Riveting, &c.
Cart Hames
Hat Pins, Hat and Coat Hooks, &c.
Hollow-ware, Tinned and Enamelled
Hinges, Wrought Iron, English and Brazilian patterns
Hooks and Hinges, English, Spanish, and Dutch patterns
Pressed Hinges
Cast Butts
Jews' Harps
Italian Irons
Japanned Trays, Waiters, &c.
Kettle Ears
Keys and Blanks for Locks
Lantern Leaves
Ladles, Pitch and Lead
Latches, for Doors of all descriptions

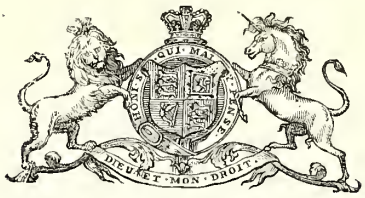
LOCKS.

Brass and Iron, Chest, Cupboard Till, Sloping Desk, Tool Chest, &c.
Iron Rim Door, best Furniture
Do. Spanish and Brazilian patterns.
Brass Case Door, best Furniture
Copper and Brass Rim Door
Mortice, Best and Common
Dead or Closet Locks
Stock Locks, Wood
Iron and Brass Padlocks
Trunk Locks
Lock Furniture, various patterns

Measuring Tapes
Strip and Sheet Brass Gilding Metals, &c.
Sheet and Tile Copper
Solder
Mills, Square Box, Flanch, and best warranted Grocers' Post and Counter Mills
Nails—Brass Chair Nails
Cut Flooring Brads
Cut Shoe Bills
Cut Brads and Tacks
Cut Rose, Clout, Clasp, and Lath Nails
Wrought Nails do. do.
Needles, Knitting, Sewing, &c.
Pulleys, Brass and Iron Frame, and Axle do. for Windows
Planes for Carpenters
Pincers do.
Pots, 3-legged
Percussion Caps
Rules for Carpenters
Rat Traps
Rivets for Tinmen.
Rod, Circular, and Canister Door Springs
Shutter Bars
Saddlery of all descriptions
Screws
Do. Best Wood
Do. Bed
Do. Coach
Do. and Nutts
Squares, Iron, for Smiths
Sad Irons
Steelyards
Scale Beams
Copper Scales
Shoe Tacks
Shoe Heels and Toes
Spades and Shovels
Ship Scrapers
Salter's Spring Balances
Snuffers
Spoons, Tinned Iron, &c.
Steel Toys
Trowels for Bricklayers
Tin Goods—Dish Covers, Kettles, Jacks, &c.
Vices, for Smiths
Do. Bench
Wire, Iron
Wire, Brass and Copper
Wire Chain, Iron and Brass
Riddles and Sieves
Iron and Brass Weights to English and Foreign patterns

BALBRIGGAN HOUSE,

33, LOMBARD STREET.



UNDER ROYAL PATRONAGE

GLENNY'S BALBRIGGAN STOCKINGS, MANUFACTURED AT BALBRIGGAN, IRELAND.

PATRONISED BY

Her Most Gracious Majesty THE QUEEN.
His Royal Highness PRINCE ALBERT.
Her Royal Highness the PRINCESS MARY OF CAMBRIDGE.
The PRINCE OF PRUSSIA.
Her Graee the Duchess of LEINSTER.
Her Grace the Duchess of SUTHERLAND.
Her Grace the Duchess of ARGYLE.
The Most Noble the Marchioness of HASTINGS.
The Most Noble the Marchioness of WATERFORD.

The Countess of HAREWOOD.
The Countess of DARTMOUTH.
The Dowager Countess of ASHBURNHAM.
Viscountess PALMERSTON.
Lady ELIZABETH ASHBURNHAM.
Lady CHARLOTTE ASHBURNHAM.
Lady WODEHOUSE.
Lady WEBSTER.
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Lady HARRIET PAGET.
Lady GEORGIANA MOLYNEUX.
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Lady ELIZABETH CORNWALLIS.
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Lady E. FINCH.
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Lady HARRIET HARCOURT.
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Lady ROSEBERRY.
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Lady DUKINFIELD.
Lady JOHN SCOTT.
Lady FLOWER.
Lady CARBERY.
Lady FRANCES GORDON.
Lady CECIL GORDON.
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The Honourable Mrs. BARING.
The Honourable Miss BARING.
His Grace the Duke of PORTLAND.
The Earl of ILCHESTER.
The Earl of SHANNON.
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Sir ST. GEORGE GORE, Bart.
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The Honourable RICHARD CAVENDISH.
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Baron KNESEBECK.
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Colonel DUNDAS.
Colonel CHAPLIN.
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Colonel EYRE.
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THE FOUR MEDALS.

THE GREAT EXHIBITION MEDAL,
THE ROYAL DUBLIN SOCIETY'S GOLD MEDAL,
THE TWO SILVER MEDALS FROM THE R.D.S.,

Have been awarded for GLENNY'S BALBRIGGAN STOCKINGS.

Balbriggan Hose, small Ladies' size, 33*s.*, 42*s.*, 51*s.*, 60*s.*, 84*s.*, and 120*s.* per doz.
Lace ditto, ditto, 54*s.*, 75*s.*, and 144*s.* per doz.
Balbriggan Hose, Ladies' size, 36*s.*, 45*s.*, 54*s.*, 63*s.*, 90*s.*, and 132*s.* per doz.
Lace ditto, ditto, 57*s.*, 78*s.*, and 156*s.* per doz.

THE QUEEN'S, 15s. per pair, and PRINCE ALBERT'S, 6s. 6d. per pair.

Balbriggan Hose, Gentlemen's, 36*s.*, 42*s.*, 45*s.*, 51*s.*, 57*s.*, 66*s.*, and 78*s.* per doz.
Balbriggan Half Hose, ditto, 18*s.*, 22*s.*, 24*s.*, 26*s.*, 28*s.*, 30*s.*, 36*s.*, and 42*s.* per doz.

Samples sent to any part of the Country free, on receipt of a Letter.
CHILDREN'S STOCKINGS AND SOCKS OF EVERY SIZE AND QUALITY.
Terms, Cash on delivery.

" The beautiful manufactures of Balbriggan were comparatively little known in England until the Great Exhibition of 1851, when Charles Glenny obtained the Prize Medal, where the delicacy of the fabric and the beauty of the workmanship at once excited universal attention. Nor is it to be wondered at; for so delicate and rich are the Balbriggan Stockings, that silk at once sinks into comparative insignificance by their side—the latter article possessing a degree of harshness, in texture and appearance, from which these Irish products are entirely free."—*Morning Post.*

" We have never seen any product of the needle or the loom to be compared with the Balbriggan Stockings."—*The Standard.*

" The Stockings, though made of cotton, are equal in lightness of texture, as well as in beauty, to the finest silk."—*Court Journal.*

" Superior to our own celebrated Nottingham Hosiery."—*Morning Chronicle.*

" The Stockings are certainly quite as beautiful as silk, and we believe more durable, and can be purchased at much less cost."—*Daily News.*

" There can be no doubt that, from the softness, elasticity, and beauty of texture, which are equal to the finest silk, these Stockings will soon become an article of very general use."—*Britannia.*

" Amongst recent discoveries we have seen nothing (in wearing apparel) so conducive to the health and comfort of the Oriental traveller as the Balbriggan Stockings introduced by Mr. C. Glenny."—*Morning Herald*, Nov. 2.

" The Irish Hosiery Weavers are much indebted to the exertions of Mr. C. Glenny, and, as a proof of their gratitude, have just presented Mr. Glenny with a beautiful silver salver."—*Dublin Warder*, Jan. 1.

" C. Glenny has a Stocking-frame at work in the Machinery Department showing the process of manufacturing the above. 'Balbriggan Hosiery is the only remaining branch of industry national in its character which it seems necessary to allude to. The specimens of these goods exhibited are remarkable for their fineness of quality; and in this respect it may be observed, that it is mainly branches of industry adapted to the wants of the wealthier classes that seem hitherto to have taken root in Ireland.' "—*Times.*

SOLD ONLY BY THE MANUFACTURER,

CHARLES GLENNY,

AT BALBRIGGAN HOUSE, 33, LOMBARD STREET, CITY;

AND BY

THRESHER AND GLENNY,

NEXT DOOR TO SOMERSET HOUSE, STRAND.

PARIS UNIVERSAL EXHIBITION, 1855.

WORKS OF INDUSTRY AND ART

EXHIBITED BY

SPIERS & SON,

MANUFACTURERS OF

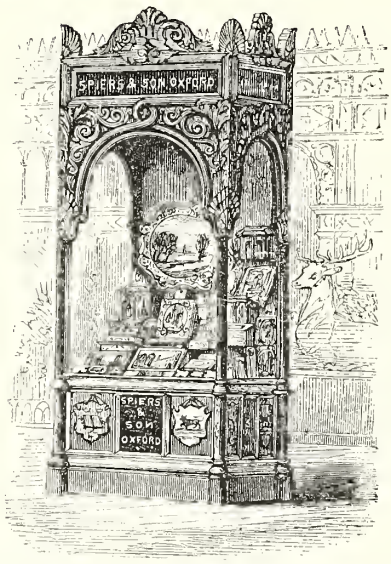
DECORATED PAPIER MÂCHÉ, ETC.

102 & 103 HIGH STREET, OXFORD.

HONORABLE MENTION

awarded by the Jurors at the

GREAT EXHIBITION OF 1851.



PRIZE MEDAL

awarded by the Directors of the

GREAT EXHIBITION AT NEW YORK IN 1853.

The above Case contains specimens of their Manufacture, and comprises a Table, Cabinets, Writing-desks, Envelope-cases, Portfolios, Work-boxes, Card-trays, Papetéries, Hand-screens, Card-cases, etc. The following is a list of various other articles manufactured of Papier Mâché, and decorated with picturesque delineations of architecture and landscape, executed at their establishment:—

CHESS-TABLES.	NETTING-BOXES.	PEN-TRAYS.	CIGAR-CASES.
FIRE-SCREENS.	TEA-CADDIES.	READING-DESKS.	JEWEL-BOXES.
MULTIFORMIAS.	CHESS-BOARDS.	CARD-BOXES.	WATCH-STANDS.
ALBUMS.	SPILL-JARS.	PAPER-KNIVES.	CARD-RACKS.
TEA-TRAYS.	CANDLESTICKS.	INKSTANDS.	NEEDLE-BOXES.

PANELS FOR INTERNAL DECORATION, ETC. ETC. ETC.

In the decoration of these goods upwards of 300 different subjects are employed, being by far the largest in number and the greatest in variety which has ever been attempted. They comprise views of every college, hall, and public building in Oxford; besides views of the college gardens, the public walks, the river scenery, and the neighbourhood. Interesting subjects in various parts of the United Kingdom and of the Continent are also represented. Paintings are executed to order, either from nature or from sketches supplied to them, and heraldic or other devices and inscriptions may be introduced.

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SPIERS & SON *are Publishers of the* "ILLUSTRATED MEMORIAL FOR VISITORS TO OXFORD," *containing Views, Maps, and general local information useful to the Tourist.*

SPIERS & SON,

MANUFACTURERS OF DECORATED PAPIER MÂCHÉ, ETC.,

102 & 103 HIGH STREET, OXFORD,

Respectfully beg to submit the following extracts from Newspapers and other Publications, referring to Goods exhibited by them.

"There is perhaps no city in the kingdom which presents so many objects of high interest for the pencil of the artist as Oxford; and the enterprise of many of our citizens has been largely exercised from time to time in the publication of engravings of them in various styles of art, and different degrees of merit. But a new and ingenious mode of representing the architectural and other beauties of the city has for some time past been adopted, and is already brought to a state of the greatest perfection—that of the papier mâché manufacture, upon articles of which, in endless variety, are painted views of the Colleges, Halls, and other public buildings, and also some of the more picturesque landscapes in the suburbs, and the adjoining districts. The sketches are taken upon the spot, and the paintings are done upon the premises of the firm which has the great merit of first introducing, and exclusively carrying on, so elegant a manufacture here—Messrs. Spiers and Son of High-street, who employ, as their articles abundantly testify, first-rate artists, and thereby produce works of art of great beauty and excellence. The pictures, as subjects of art, could not be better of their class. The architectural features from their striking character and great variety, united with the broken and picturesque groups of trees, form views of the most enchanting kind; and they are represented under all the advantages of effect which can be imparted by the hazy grey or the clear light of morning, or in the quiet of evening, when the orb of day is just sinking below the horizon. These representations of the most beautiful objects for which our city is so justly celebrated, may be possessed in articles which are both useful and ornamental—representations which are executed in an admirable style of art, and upon a material of the most elegant and durable kind. As mementos of Oxford they are in all respects excellent; and few members of the University, one would think, can resist the temptation to possess such elegant and interesting memorials of their *Alma Mater*."—*Oxford Herald.*

"The Oxford Contributions to the Great Exhibition.—The first collection of articles, which, from its interest, variety, and excellence, deserves to be placed at the head of our list, is that of Messrs. Spiers and Son, of the High-street, in this city, which occupies, and most deservedly so, a very prominent position on the north side of the western nave. The articles exhibited by Messrs. Spiers and Son are arranged in a large and elegant case of brass-work and plate-glass, 14 feet in height, designed by Mr. Owen Jones, and fitted up by Messrs. Fox and Henderson at great cost. The contents of the case are—a large screen which forms the apex of the arrangement, below and around which are grouped tables, cabinets, desks, work-boxes, albums, portfolios, waiters, tea-caddies, &c., in papier mâché, in number nearly 300, ornamented with upwards of 150 different views of the colleges, public buildings, the college-walks, and general views of the city and neighbourhood; around the back of the case, hand-screens, &c., are arranged in a fan-like ornament. From this slight sketch of this collection, which is well worthy of the prominent position it occupies, and the notice which it excites, it will be seen that Oxford is well represented in the Great Exhibition, having its name and attractions placed conspicuously amongst those of our great marts of industry and commerce. Nor will such a display be without its use, for it will not fail to awaken in the minds of many pleasing reminiscences of olden times. And we can well imagine that many of our foreign and country visitors, when tired of the heat and dust of the metropolis, may gladly be tempted to sojourn amidst the cool and delicious cloisters and gardens of a place so world-renowned as Oxford, and to possess themselves with some such pleasing reminiscence of it as these articles afford."—*Oxford Journal.*

"We observe with much pleasure, in the north-west side of the nave of the Crystal Palace, a very elegant selection of papier mâché articles from the classic city of Oxford, contributed by the Messrs. Spiers and Son. Throughout these examples there is a manifestly wholesome departure from the cockatoo and peacock style hitherto so much in vogue. With a material eminently adapted for works of art, and a manipulatory process which renders such results ever enduring, the style hitherto adopted was becoming not only painful to the eye, but lamentable to the mind. Messrs. Spiers' exquisite paintings are purely English; for while they have devoted their energies and talents to the illustration of their noble city and its vicinity, they may be said to have entered their campaign of taste under St. George, as their well-directed efforts must scout for ever from the field of art, those nondescript dragons and Chinese monstrosities, once inseparable from papier mâché decoration."—*Standard.*

"Fronting the nave, will be found the fine collection of ornamental work, exhibited by Spiers and Son, of Oxford. The Messrs. Spiers have been at some pains to impress the public with the love of their city, by taking all the subjects for the decoration of their papier mâché works from Oxford. Oxford is seen under every aspect: its colleges, its streets, its very seals are all illustrated."—*How to See the Exhibition.*

"The contributions of Messrs. Spiers and Son, of Oxford, are shown in a semi-octagonal dome-shaped glass-case in the nave, designed by Mr. Owen Jones. They consist of tables, cabinets, desks, work-boxes, albums, portfolios, waiters, tea-caddies, &c., in papier mâché, ornamented with views of the colleges, public buildings, college-gardens, and other objects of interest in the university and its neighbourhood. Here, again, we are happy to notice endeavours after a truer and less meretricious style of ornamentation. As the taste of the Oxford people seems to run in a contrary direction to that of the usual purchasers of this description of goods, this firm have taken up the ornamentation of papier mâché in a new style. Instead of adopting the usual subjects of birds, flowers, Chinese landscapes, and other less pleasing styles, they conceived that picturesque representations of architectural and landscape subjects, treated in an artist-like manner, to which other ornament should be subservient, would be equally interesting to many persons, equally popular, and more conducive to the diffusion of a sound taste; and, judging from the display of articles exhibited by them, we cannot help thinking that they have acted wisely in carrying out their intentions."—*Morning Chronicle.*

"The Messrs. Spiers and Son, of Oxford, have long been known as strenuously exerting themselves to give a higher direction to the ornamentation of the material known as papier mâché. In this praiseworthy task they have eminently succeeded; and a class of art has been enlisted for this purpose as far superior to that which has hitherto been employed, as are the paintings upon the porcelain of Sèvrés to the worn out plate of the willow pattern. The consequence is that our drawing-rooms, our libraries, and our boudoirs, become pictorially decorated with objects of utility agreeable to the senses, instead of being positively offensive to a refined perception. In Class 26, in the Crystal Palace, is a large dome-shaped glass-case, in which may be seen several charming evidences of the facts here enunciated, which are at the same time acceptable proofs of the good taste prevailing in, and encouraged at Oxford."—*Morning Herald.*

"On the opposite side of the nave stands a large glass-case devoted to the handiwork of Messrs. Spiers and Son, of Oxford, who immortalize their native and most learned city in every possible point of view and upon every possible variety of article. We have Oxford from the fields, and Oxford from the river, Oxford in the streets, Oxford colleges, Oxford halls, Oxford staircases, and Oxford seals. These paintings which are scattered over desks, tables, secretaries, and work-boxes, are all beautifully executed."—*Daily News.*

"In taste of ornament and execution the London houses seem to stand first; then the works from Oxford, Wolverhampton, and Birmingham follow. Of Messrs. Spiers and Son's collection the most prominent features are tables with landscapes; the largest has a very pretty ornament, *à la* Louis XIV., well designed, enclosing a general view of Oxford; and another with the front of Christ Church is accompanied by some good tedesche ornament of the succeeding style. The oval table is very nicely designed, and great praise is due to a round one with a landscape of pollards, and an excellent ornament. There are some exquisite card-trays, and about forty specimens of paintings on flat surfaces, as book-covers, &c., the borders are irreproachable, and some birds are very well drawn. Every visitor to the Exposition must be pleased with those really noble inkstands which are unadorned, and manufacturers may take a useful hint from a coat of arms under a cardinal's hat."—*Illustrated London News.*

"During the last week the sale of things of all descriptions have been carried on to an incredible extent. Few of the smaller things in the Fine Arts department, either Foreign or English, that would serve as souvenirs of the 'World's Fair,' remain unsold. Not a French bronze is to be had, and the inquiries at the beautiful display of papier mâché Views of Oxford seem to have given full employment to the parties in attendance at the glass-case of Messrs. Spiers and Son. We have mentioned this latter instance to enable us to bestow a meed of praise we ought not to have left till so late a period. These views of spots so interesting to the sons of Alma Mater indicate a higher walk of art than we have been disposed hitherto to accord to the gaudy and glittering beauties of papier mâché, an advance to be chronicled among the testimonials to English art displayed by the Exhibition of 1851."—*Guardian.*

"The contributions in papier mâché of Messrs. Spiers and Son of Oxford, consist of tables, writing-desks, albums, fire-screens, &c., all of which are in good taste; the ornamentation being sufficiently subdued, and due regard being had to harmony of composition. They derive much of their interest and attraction from the paintings with which they are embellished, consisting of some of the most picturesque or celebrated edifices in Oxford, as well as sketches taken from its outskirts."—*Art Journal.*

"Messrs. Spiers, of Oxford, exhibit numerous examples of papier mâché, many of them beautifully ornamented."—*Juries' Report on the Great Exhibition of* 1851.

"Among the latter, Messrs. Spiers and Son, of Oxford, have contributed a large case of papier mâché articles, decorated with very well-executed scenes in and about Oxford, including the colleges, cathedrals, chapels, monuments, and other haunts of the young students."—*Ladies' Newspaper.*

"Messrs. Spiers and Son, of Oxford, have contributed a highly valuable and interesting series of objects in papier mâché, consisting of trays, cabinets, fire-screens, envelope-cases, work-boxes, portfolios, desks, writing-cases, &c., &c. On these are delineated with extreme fidelity views of the principal buildings and scenes in and about Oxford. The collection is both valuable and unique."—*Illustrated Exhibitor.*

"The importance of papier mâché manufacture may be fairly estimated from the variety and number of articles displayed in the Great Industrial Exhibition. Class XXVI. has been more particularly devoted to this article, and here we find, as large exhibitors, Messrs. Jennens and Bettridge of Birmingham, Messrs. Spiers and Son of Oxford, and several other manufacturers. From the continent we find papier mâché goods exhibited by at least a dozen firms, but it is questionable, however, if any of them equal in perfection of material, beauty of form, and chasteness of ornamentation, those which are exhibited by the manufacturers of our own country. * * * * Some of the earliest paper trays were ornamented with polychromatic borders from the decorations in the Vatican, and in the centres were painted monochrome groups of figures copied from the antique. Next came the style adopted from the Chinese, consisting of Chinese landscapes, temples, and figures. Any attempt to reform the Chinese patterns was cried down; hence it became one of the requisites, in ornamenting trays, to pay no attention to the laws of aerial and linear perspective. In connection with this style, a peculiar mode of painting flowers in colours was now very frequent—this was also adopted from the Chinese. Stained silver in the shape of birds, combined with bronze skies, was much in request. Since that time by the exertions of Messrs. Spiers and Son, of Oxford, topographical, architectural, and pictorial landscapes have been introduced. And thus views of the University of Oxford, of its many colleges and halls, upon articles of ornament and utility, have found their way into various parts of the world as remembrances of times past and early associations. * * * * Various methods of ornamenting papier mâché works are in vogue, and, as a material upon which the artist's pencil may be employed, its capabilities are exceedingly great. As examples of this we may refer to any of the beautiful and really artistic works of Messrs. Spiers and Son, of Oxford, alluded to above, who have devoted their works principally to views of the colleges, churches, and objects of historical interest about Oxford and its neighbourhood. Their ornamental fire-screen on which is a view of the Martyrs' Memorial, is an exceedingly good example of that class of painting. All the views on their works are painted by hand, and studious care is paid to drawing, light and shade, and colour. The views being all painted in Oxford, more attention is paid to local correctness in colour, and in the architectural details, than is commonly the case. Many of the scenes are sketched upon the spot, and studies of details made by the persons employed to paint them. There appears to be quite as much care bestowed on these views before varnishing, as is given to oil-paintings upon canvas. These remarks may be the more necessary because some persons, not acquainted with the executive of painting, imagine, from the correctness of the architectural details, that they are done by some block-printing process."—*From an article by Professor Robert Hunt, in the Art Journal, Nov.* 1851, *on Papier Mâché Manufacture.*

"If the Messrs. Spiers, of Oxford, do not exhibit the largest assortment of papier mâché goods in the Exhibition, they are certainly by no means behind their competitors in the beauty of the articles, or the artistic skill with which they are decorated. The principal article exhibited is a table with a most elaborately-executed landscape in the centre, surrounded by a beautiful lace-like border; the stand of the table being also most tastefully decorated. The other articles exhibited are work-boxes, portfolios, trays, &c., the whole of which are ornamented with pure artistic taste, rendering them peculiarly adapted for presents, or *gages d'amour.* On the stand of the Messrs. Spiers, who were also successful exhibiters in Hyde Park, are laid some very curious pocket memorials of Oxford, which contain a map of that town, a table of distances from Oxford of the principal places in England, a list of the principal objects of interest in the city, views of the interior and exterior of Messrs. Spiers' own establishment, in the High-street, (surrounded by an illuminated border, containing shields with the armorial bearings of the several Colleges,) St. John's College and gardens, entrance to Oxford, Christ Church, &c. The ornaments and architectural devices on this memorial are taken from illuminated MSS. in the Bodleian Library, and from buildings in Oxford, and are executed in the best style; the various views (which are printed in colours from lithographic-stones) being perfect gems of art."—*Morning Post; Report of the Dublin Exhibition.*

"In that artistic-looking case, designed by Mr. Owen Jones, Mr. R. J. Spiers, the Mayor of Oxford, of the firm of Spiers and Son, whose valuable private collection of works of art attests his taste and liberality, exhibits the choicest of his far-famed papier mâché productions. In the centre is a table, on the top of which are portrayed picturesque views of the city of which he is the chief magistrate, with its many towers and spires, taken from the well-known meadows, which, with their pollards, give a character by their contrast to the beautiful city of Oxford. Around it are desks, and cabinets, and portfolios, and some of those thousand of fanciful forms which papier mâché is made to assume for the purpose of graceful ornamentation and household decoration.—*Guide to the Crystal Palace, Sydenham.*

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This Brush is so constructed, that it stimulates the skin of the head and polishes the surface of the Hair by one and the same operation. By the stiff or hard portion of this Brush, an active friction is produced; this effectually clears away the dandriff or diseased scarf-skin, the accumulation of which impedes the free circulation of the hair-globules. This most important function being accomplished, the soft portion performs its proper office by clearing away every particle of dust from the surface of the hair, which leaves it soft and glossy. The head cannot be too much brushed; the more the head is brushed, the more healthy will be the skin; it gives health and strength to the hair, and prevents baldness, or the hair becoming thin.

The "PATENT FRICTION HAIR BRUSHES," are manufactured on principles to produce this great desideratum, and when once used, no person who regards the appearance of their Hair, and the health of the Skin, will be without one.

W. H. C. likewise begs to call the attention of his Friends and the Public, to his "RHINOPHILIS FLESH BRUSHES," which give a free circulation to the blood, and being flexible, penetrate into all the interstices of the skin, and effectually remove all extraneous matters that clog the pores, and which are the cause of Cutaneous diseases. Also, his "PATENT CARPET BROOM," made to prevent the tearing off the wool from the carpet, so much complained of in the ordinary Brooms now in use, acting more as a Brush on the surface of the carpet, and at the same time thoroughly cleaning it from dust. Being made without the handle, they are much superior for packing and for shipping; the handle being separate from the Broom, can be fastened like the common Hair Broom.

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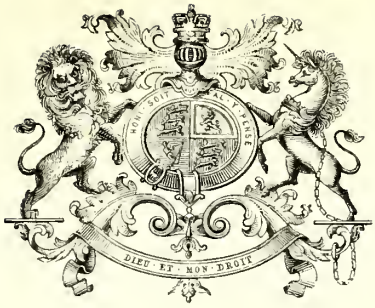

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The Council select Works of Art for such Prizeholders as desire it; and for all those residing in distant parts who may not have delegated the selection to friends in England.

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No. 1	4	inches,	10/ per dozen.
2	4½	do.	11/ do.
3	5	do.	12/ do.
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COMMON GROUND HOLLOW SHANK.

No. 5	5	inches,	14/ per dozen.
6	5½	do.	15/ do.
7	6	do.	16/ do.

Patent, 6/ per dozen extra.

GLAZED HOLLOW SHANK.

No. 8	5	inches,	15/ per dozen.
9	5½	do.	16/ do.
10	6	do.	17/ do.
11	6½	do.	19/ do.
12	7	do.	21/ do.
13	7½	do.	25/ do.
14	8	do.	27/ do.

Patent, 6/ per dozen extra.

GLAZED HOLLOW SHANK SWAGED.

No. 15	5	inches,	16/ per dozen.
16	5½	do.	17/ do.
17	6	do.	18/ do.
18	6½	do.	20/ do.
19	7	do.	22/ do.

Patent, 6/ per dozen extra.

BRIGHT HOLLOW SHANK.

No. 20	5	inches,	17/ per dozen.
21	5½	do.	18/ do.
22	6	do.	19/ do.
23	6½	do.	21/ do.
24	7	do.	25/ do.
25	7½	do.	27/ do.
26	8	do.	30/ do.

Patent, 6/ per dozen extra.

BLACK HOLLOW SHANK.

No. 27	5	inches,	17/ per dozen.
28	5½	do.	18/ do.
29	6	do.	19/ do.
30	6½	do.	21/ do.
31	7	do.	23/ do.

Patent, 6/ per dozen extra.

BLACK OR BRIGHT CAST STEEL, WITH STEEL BOWS.

No. 28½	29½	30½
5½-in. 20/.	6-in. 21/.	6½-in. 23/.

Patent, 6/ per dozen extra.

BLACK OR BRIGHT SWAGED.

No. 32	5½	inches,	19/ per dozen.
33	6	do.	20/ do.
34	6½	do.	22/ do.
35	7	do.	26/ do.

Patent, 6/ per dozen extra.

BLACK OR BRIGHT CAST STEEL SWAGED, STEEL BOWS.

No. 32½	33½	34½
5½-in. 21/.	6-in. 22/.	6½-in. 24/.

Patent, 6/ per dozen extra.

BLACK CAST STEEL, WITH STEEL BOWS.

No. 36	7¼	inches,	25/ per dozen.
37	7¼	do.	27/ do.
37½	7¾	do.	31/ do.

Patent, 6/ per dozen extra.

BLACK CAST STEEL, WITH BRIGHT STEEL BOWS.

No. 38	7¼	inches,	29/ per dozen.
39	7¼	do.	31/ do.
39½	7¾	do.	35/ do.

Patent, 6/ per dozen extra.

BRIGHT CAST STEEL, WITH STEEL BOWS.

No. 40	7¼	inches,	25/ per dozen.
41	7¼	do.	27/ do.
42	7¼	do.	27/ do.
42½	7¾	do.	35/ do.

Patent, 6/ per dozen extra.

BRIGHT CAST STEEL, WITH BRIGHT STEEL BOWS.

No. 43	7¼	inches,	29/ per dozen.
44	7¼	do.	31/ do.
44½	7¾	do.	35/ do.

Patent, 6/ per dozen extra.

BRIGHT CAST STEEL, WITH STEEL BOWS.

No. 45	7¼	inches,	29/ per dozen.
45½	7¾	do.	33/ do.

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BEST BRIGHT CAST STEEL, WITH BRIGHT STEEL BOWS.

No. 46	7¼	inches,	31/ per dozen.
47	7¼	do.	33/ do.
47½	7¾	do.	37/ do.

Patent, 6/ per dozen extra.

DOCKING, DAGGING, CLAGING, OR BELTING.

No. 1	2	3	4	5	6
15/	16/	18/	19/	19/	20/

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FELLMONGERS', GLOVERS', THATCHERS', OR RAG SHEARS.

No. 46	47	48	49	50	51	52	53	54
20/	21/	23/	25/	27/	30/	33/	39/	45/

HORSE SHEARS.

No. 1	2	3	4	5
13/	14/	15/	16/	17/

Patent. 6/ per dozen extra.

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No. 6	7	8	9
16/	17/	18/	19/

Patent, 6/ per dozen extra.

IMPROVED LONG SHANKS.

No. 100	101	102	103
4½-in.	5-in.	5½-in.	6-in.
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Tomlin's Black or Bright Cast Steel, 30 and 31, Black or Bright . . . . . Patent, 6/ per dozen extra.

Clatworth Pattern and Bent Devon . . . .

Bright Cast Steel Trowel Shanks, with Bright Steel Bows, up to 6 inches, 32/; 6½ inches, 36/. Patent, 6/ per dozen extra.

Weavers' Shears . . . . . .

IMPROVED BENT BLADES, 6d. per dozen extra.

	7-in.	8-in.	9-in.	10-in.	11-in.	12-in.	13-in.	14-in.	15-in.	16-in.	17-in.	18-in.
Carpenters' Drawing Knives . . .	15/	16/	16/9	18/	19/3	21/6	24/	27/6	31/	34/6	39/ per doz.	
Cast Steel Carpenters' Drawing Knives	22/6	23/6	24/6	26/6	30/	32/6	35/6	39/6 per doz.				

	4 in.	4½-in.	5-in.	5½-in.	6-in.	6½-in.	7-in.	8-in.	9-in.	10-in.
Gentlemen's Box Handle Drawing Knives, Cast Steel	20/	22/	24/	26/	28/	30/	32/			

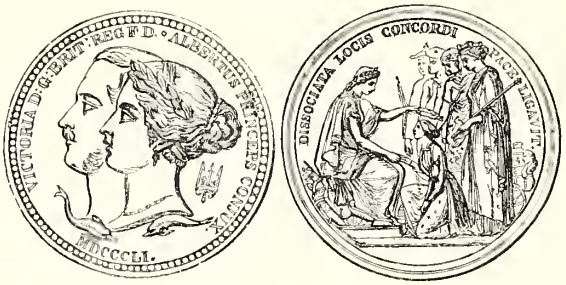
	8-in.	9-in.	10-in.	11-in.	12-in.
Canada Patterns	15/	15/9	16/6	17/6	18/9 per dozen net.

Great Exhibition, 1851.

PRIZE MEDAL,

Class 22.

AWARDED FOR SUPERIOR



ANVILS,

VICES, &c.

M. & H. ARMITAGE & CO.,

MOUSEHOLE FORGE,

NEAR SHEFFIELD,

MANUFACTURERS OF THE

GENUINE MOUSEHOLE ANVILS,

VICES,

HAND, SLEDGE, AND ENGINEERING HAMMERS,

GRINDERS' AXLES AND PLATES,

MASONS AND EXCAVATORS' TOOLS,

AND

ALL KINDS OF FORGE AND MILL WORK, &c.

None are Genuine but those marked

M & H
ARMITAGE
MOUSE
HOLE

Grande Exposition de 1851.

PRIX, CLASSE 22,

Accordé pour Enclumes, Ecrous, Marteaux et autres Outils d'une Qualite supérieure.

À

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DE MOUSEHOLE FORGE,

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FABRICANTS

DES SEULS OUTILS RENOMMÉS DE MOUSEHOLE,

Tels que: Enclumes, Ecrous,

Marteaux à main, Marteaux à deux mains, et Marteaux d'Ingénieurs;

Axes pour les roues de Rémouleurs, et Plaques en fonte;

Outils de Maçons et Pionniers, et de tout le Matériel des Forges et des Fabriques.

Tous les Articles sont reconnaissables à cette marque:

M & H
ARMITAGE
MOUSE
HOLE

Grosse Ausstellung von 1851.

Medaille erhalten für die besten Ambosse, Schraubstöcke, Hämmer, und andere Werkzeuge.

M. & H. ARMITAGE & CO.,

MOUSEHOLE FORGE,

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Die einzigen berühmten Werkzeuge von Mousehole, nämlich:

Ambösse, Schraubstöcke;

Hand- und Vorschlag-Hämmer; Schleifsteine-Spindel und Platten;

Werkzeuge für Maurer und Bergleute;

und alle Werkzeuge für Schmiede und Fabriken.

Man erkennt alle Werkzeuge an diesem Zeichen

M & H
ARMITAGE
MOUSE
HOLE

RICHARD JOHNSON & BROTHER,

Iron Manufacturers,

WIRE DRAWERS, AND GALVANIZERS,

OFFICE,

27 DALE STREET, MANCHESTER.

PRICES OF IRON.

	Per Ton. £. s. d.
Bar Iron—	
Flats 1 in. to 3½ in. wide to 1 in. thick	
Rounds and squares ½ in. to 1½ in.	
Small rounds and squares—	
7/16 in.	
8/8 in.	
5/16 in. Nos. 1 and 2 gauge	
¼ in. or No. 3 ,,	
No. 4 ,,	
5 ,,	
3/16 in.	
No. 6 ,,	
7 ,,	
8 ,,	
9 ,,	
10 ,,	
Shoe Heel Iron—	
Nos. 1, 2, and 3, or ⅜ in. and larger	
5/16 in.	
¼ in.	
Best Bars	
Best Best Bars	
Best Scrap ,,	
Best Rivet Iron	
Best Best Rivet Iron	

	Per Ton. £. s. d.
Small flats—	
1 inch by ¼ inch flat	
7/8 and ¾ in. × ¼ in or 5/16 in.	
⅝ and 9/16 in. × ¼ in. or 5/16	
1 in. × 3/16 in.	
7/8 and ¾ in. × 3/16 in.	
⅝ and 9/16 in. × 3/16 in.	
½ in × 8/16 in.	
Half-rounds and ovals—	
7/8 and ¾ in.	
⅝ and 9/16 in.	
½ inch	
7/16 ,,	
8/8 ,,	
5/16 ,,	
Half ovals, half the thickness—	
7/8 and ¾ in.	
⅝ and 9/16 in.	
½ inch	
7/16 ,,	
⅜ ,,	
5/16 ,,	
Can Top Iron	
Best Wire Rods No. 0 to 4	
Best Best Wire Rods ,,	
Best Charcoal Wire Rods ,,	

Prices of Iron Wire (Fil de Fer), per Ton.

No.	0	1	2	3	4	5	6	7	8	9	10
Best Telegraph Wire, in long lengths .											
If Galvanized do. .											
Fencing Wire do. .											
If Galvanized do. .											

Iron Wire, per Bundle of 63 lbs.

No.	0 to 6	7	8	9	10	11	12	13	14	15	16	17	18	19
Best Charcoal Wire . .														
Best Best do. . .														
Best Iron do. . .														
If Galvanized, extra . .														
If Tinned, do. . .														

Iron Wire, per Bundle of 12 lbs.

No.	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Iron Binding Wire																	
Charcoal do.																	
If Galvanized, extra . . .																	
If Tinned, do. . . .																	

Reed Wire, per Pound.

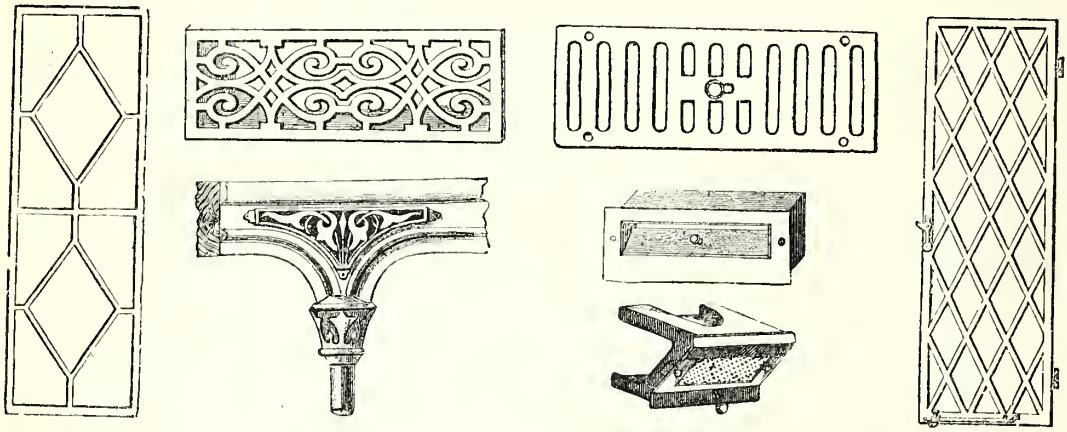
No.	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

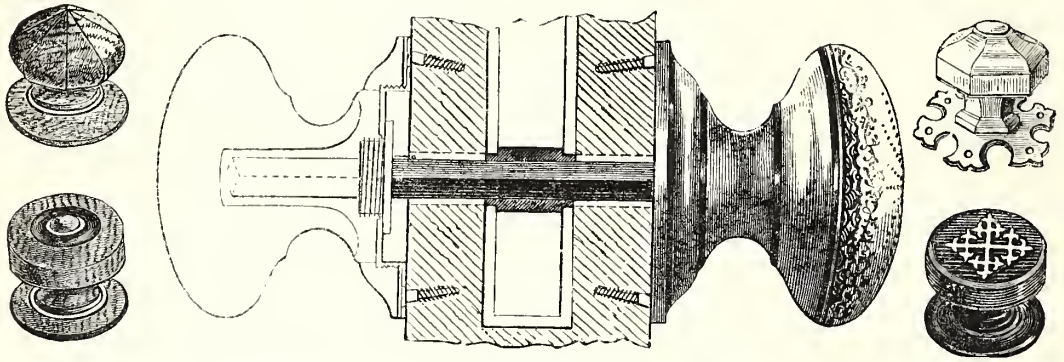
Galvanized, and Galvanized Tinned, Sheet Iron, per Ton.

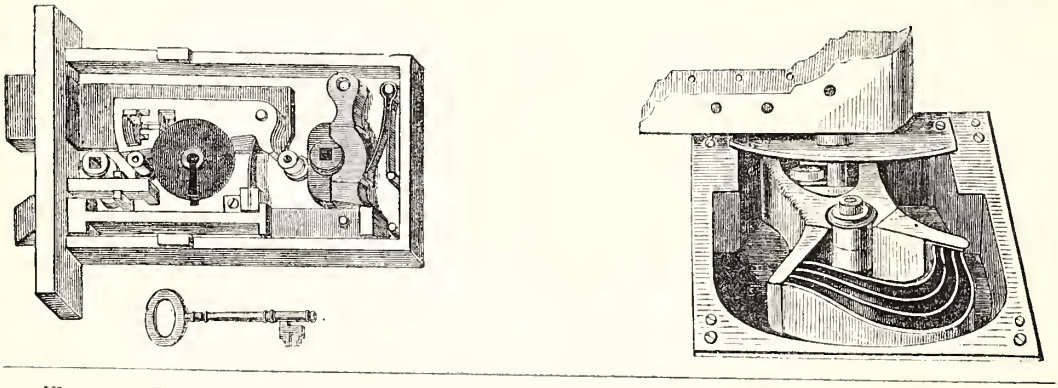
No.	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Galvanized Sheet Iron															
Galvanized Tinned do.															
Best Quality . .															
If 30 in. wide, extra															
If Corrugated, do.															
Corrugated & Curved															

Galvanized Hoop Iron, per Ton.

Nos. 10 to 15, 1¼ in. to 1½ in.	Nos. 16 to 20, 1¼ in. to 1½ in.	Nos. 21 to 24, ¾ in. to 1½ in.







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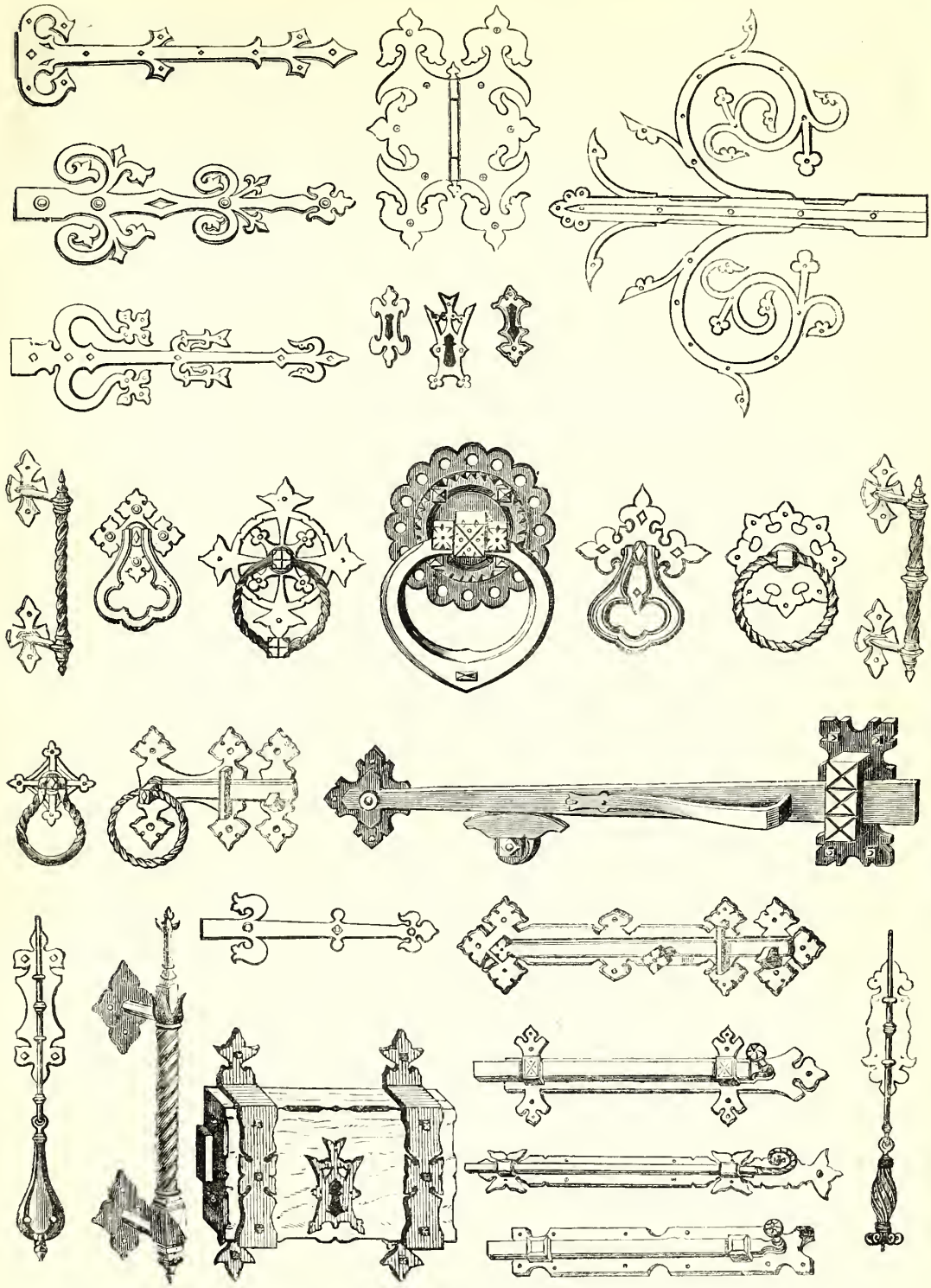
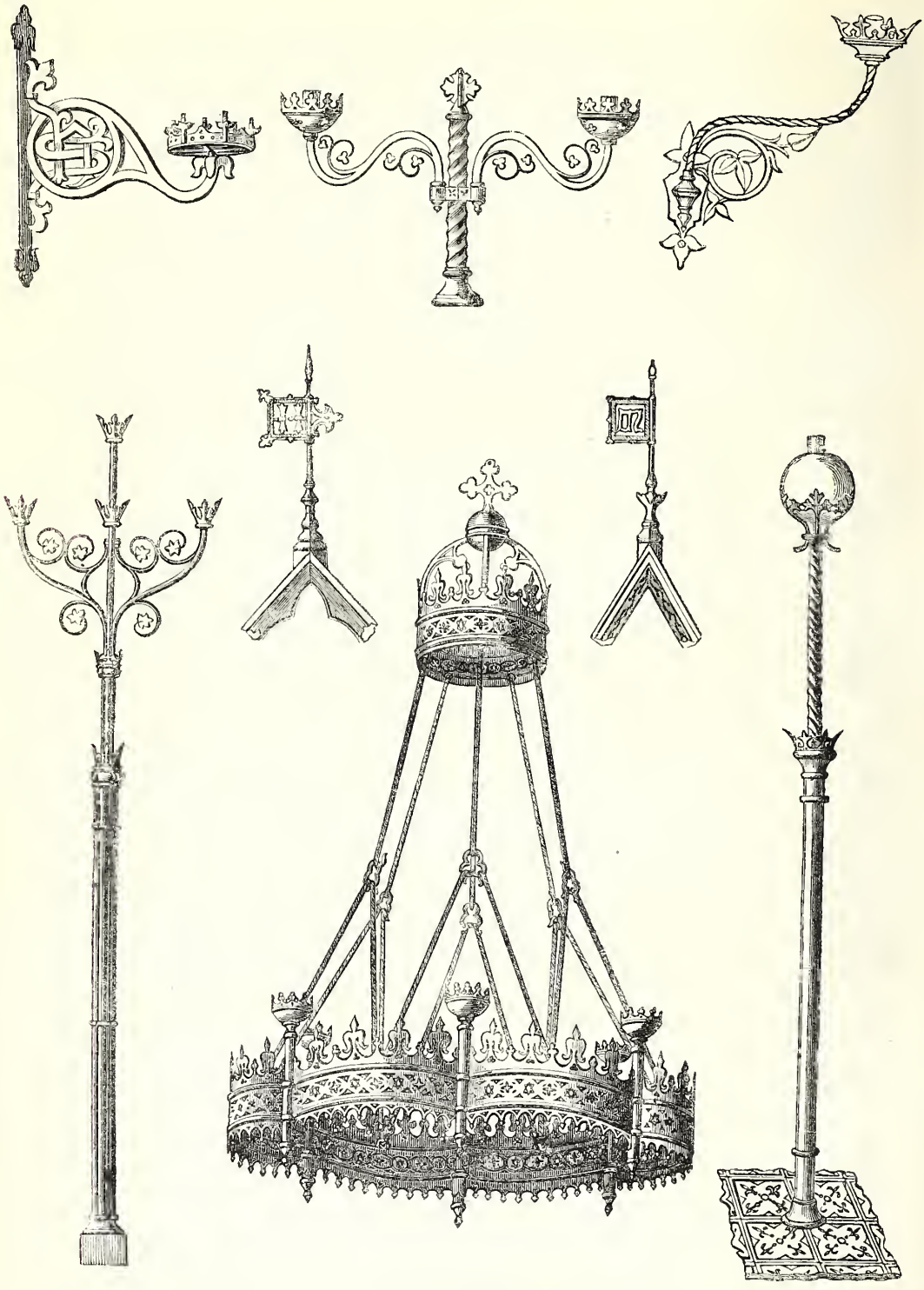


On peut obtenir un Catalogue Illustré avec les prix marqués, en s'adressant à leur Agent, Mr. Dowson, *au Palais de l'Industrie ; ou à leur Magasin,* 53, 54, 55, *Wych Street, Strand, à Londres.*



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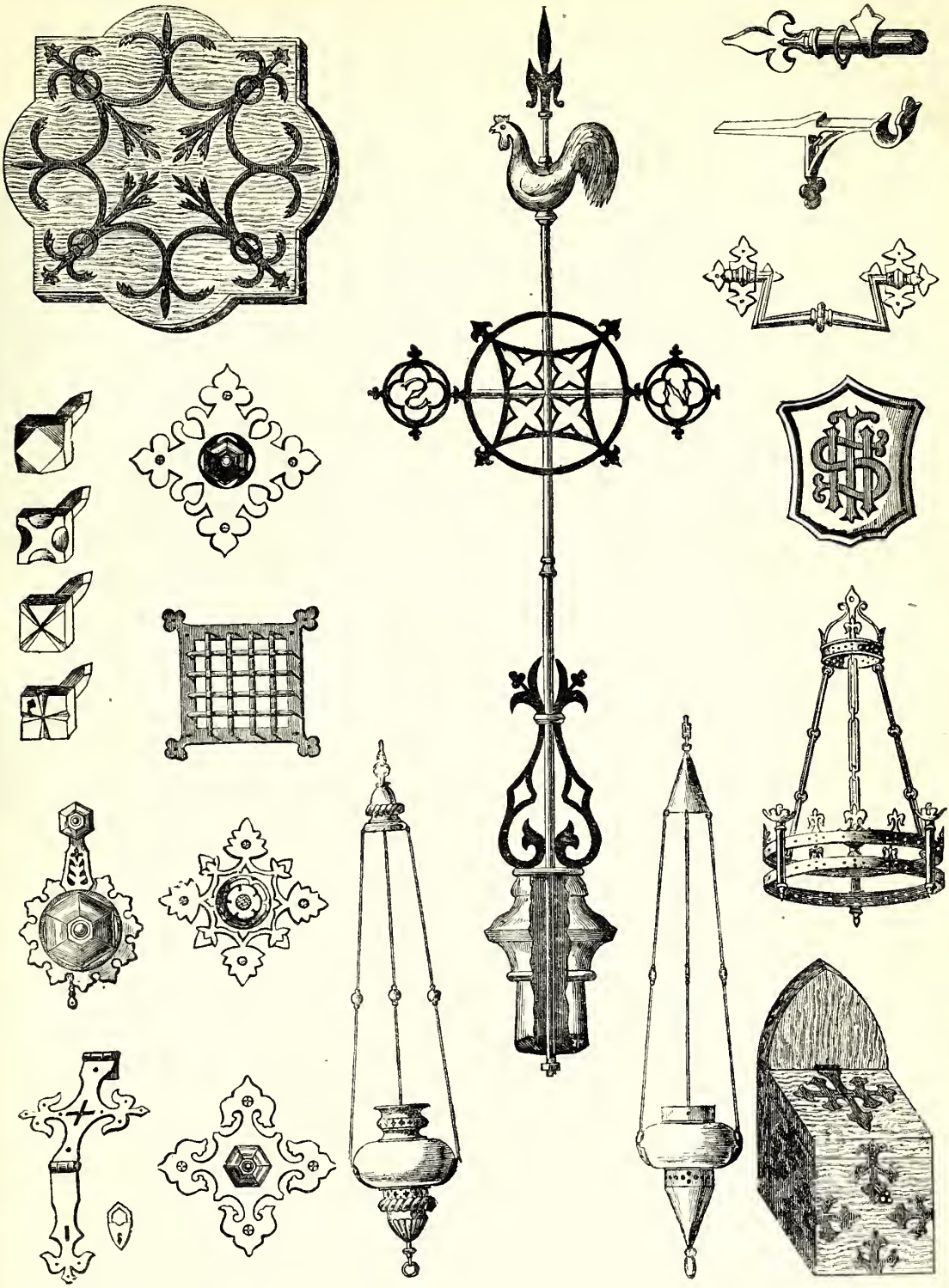

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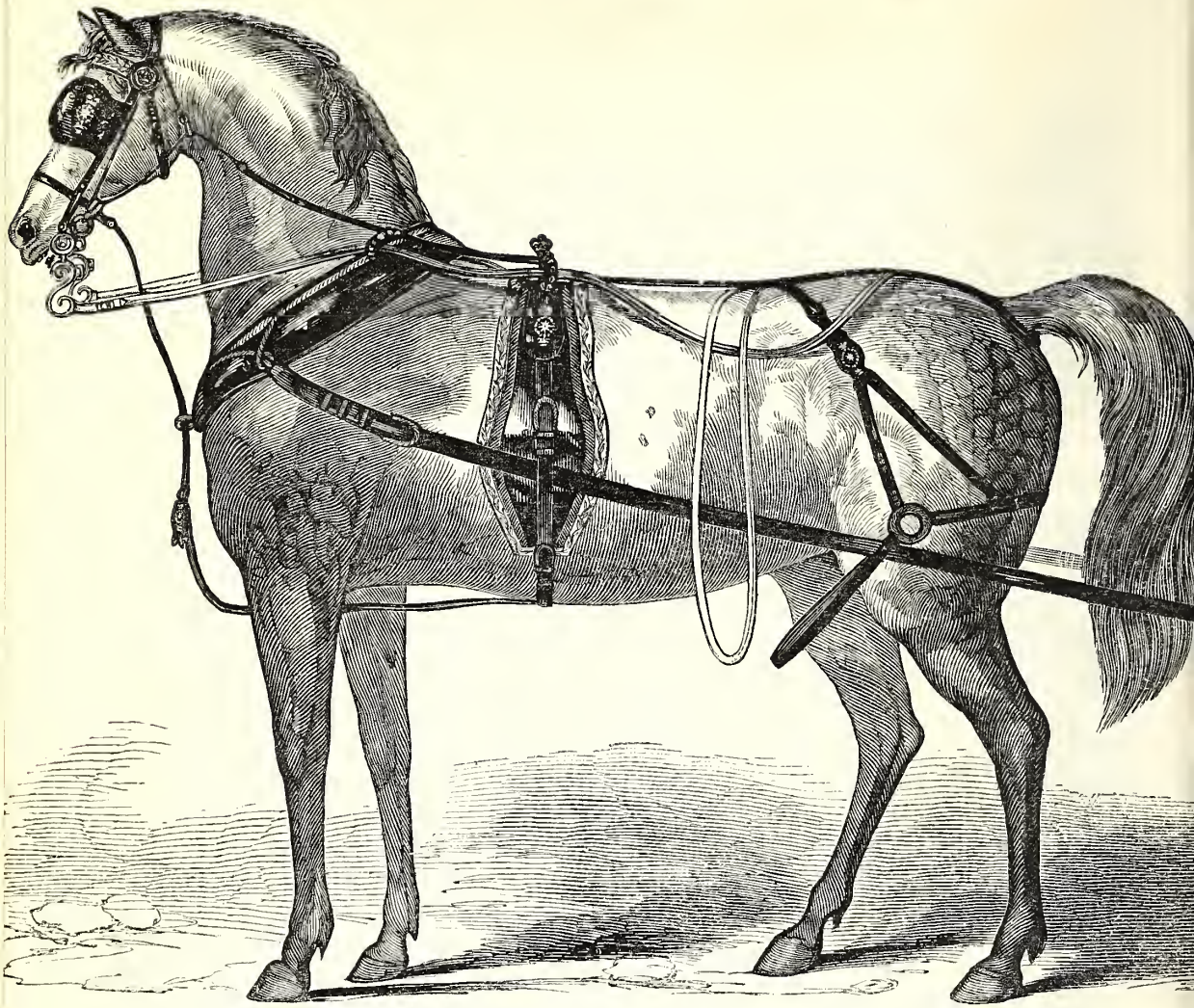


PATENTES DE BLACKWELL POUR LA SELLERIE, LES HARNAIS, ETC.

RESSORTS EN CAOUTCHOUC VULCANISÉ pour les Courroies de Selles ou Sangles ; ayant toujours la même pression fixe qui empêche qu'on ne soit obligé de s'arrêter pour resserrer ou lâcher les Sangles, 2 shillings chaque ; on en emploie trois du côté le plus rapproché de la Selle, 6 shillings.

Les Selles de Dames qui ont des Surfaix en cuir, enlèvent au Cheval la faculté de respirer, et causent des accidents. Les Ressorts patentés sont attachés aux courroies et aux Surfaix, 2 shillings chaque.

Une paire de Sangles avec des Ressorts patentés, 10 shillings. Ressorts patentés attachés à une courroie de Sangle, 3 shillings.

On les applique aussi aux Ventrières et aux Ceintures employées par les Cavaliers et les Militaires, les Martingales, et toutes les parties de la Sellerie et des Harnais qui demandent de l'élasticité.

Les Ressorts patentés Boucles à la Gourmette de la Bride d'une Dame, d'un Cavalier, ou d'un Militaire, et attachés au Bridon, permettent d'employer deux mors et une seule rène ; tant que le Cheval va doucement le tirage n'opère que sur le Bridon ; dès qu'il prend de la bouche le Ressort prête, et la Rène agit sur le Bridon. Beaucoup de Chevaux ne prennent pas de la bouche lorsqu'ils sont seuls, les Chevaux de Dames (qui en général ne vont pas seuls) prennent de la bouche, et les Cavalières timides ne peuvent prendre une rène pour une autre, puisqu'elles n'ont qu'une en main.

Ce même Ressort s'attache à toutes les grandes guides pour conduire par le moyen *du Bridon*, et quand le cheval prend de la bouche, ce Ressort s'étend et le tirage opère sur la Gourmette, de 4 shillings à 7 shillings chaque.

Ressorts patentés pour les Rènes de différentes espèces, qui permettent au Cheval de retirer et de baisser la tête.

Ressorts patentés qui empêchent que le Cheval ne saisisse le côté du mors et qu'il ne s'échappe.

Appareils patentés en Gutta Percha pour dompter les Chevaux et les accoutumer au mors, leur rendre la bouche douce, et les rendre dociles ; ces appareils s'emploient aussi pour faire des exercices pendant le mauvais temps avec des Ressorts patentés en Caoutchouc Vulcanisé qui s'étendent de 15 à 30 pouces, ou même à une longueur quelconque ; et leur force varie depuis celle que demande la main légère d'une Dame jusqu'à la vigueur qu'on déploie en faisant reculer un Cheval, 50 shillings et 60 shillings.

Appareils en bois avec des Ressorts patentés, 30 shillings et 40 shillings.

Les Ressorts patentés sont applicables aux vieux appareils et les rend ent excellents ; avec deux ou quatre Ressorts, à 4 shillings chaque.

Une paire de Ressorts dont un bout est attaché à une Selle de Monture, une Selle de Voiture on aux Brancards, et l'autre bout au Mors, Bridon ou Muserolle d'un Cheval qui prend de la bouche, aide à conduire et souvent rend au Cheval la bouche douce.

Ressorts patentés en Cuivre pour des longes, &c., 1sh. 6d.

Forts Ressorts patentés en Fer, en Cuivre, en Nickel, pour les Rènes des Colliers, les Chaines, les Cordes, les Rènes de toute espèce, &c.

Ressorts patentés en Gutta Percha pour empêcher le Cheval de mordre sa mangeoire ; ils sont faits de manière à ne point gâter la Crinière, et sont légers et élastiques, 12 shillings et 15 shillings.

Caoutchouc Vulcanisé patenté. Tissus de toutes largeurs pour Fanons, Genouillères, Jambières ; ils sont poreux et élastiques, de 4 shillings à 10 shillings.

Ceintures à plomb et Poires à poudre patentées ; elles ont des Ressorts en Caoutchouc Vulcanisé. Elles ne peuvent pas se rouiller et devenir inutiles, ni crever par l'effet de la friction, ce qui arrive avec les Ressorts actuels.

FABRIQUE de SELLERIE et de HARNAIS

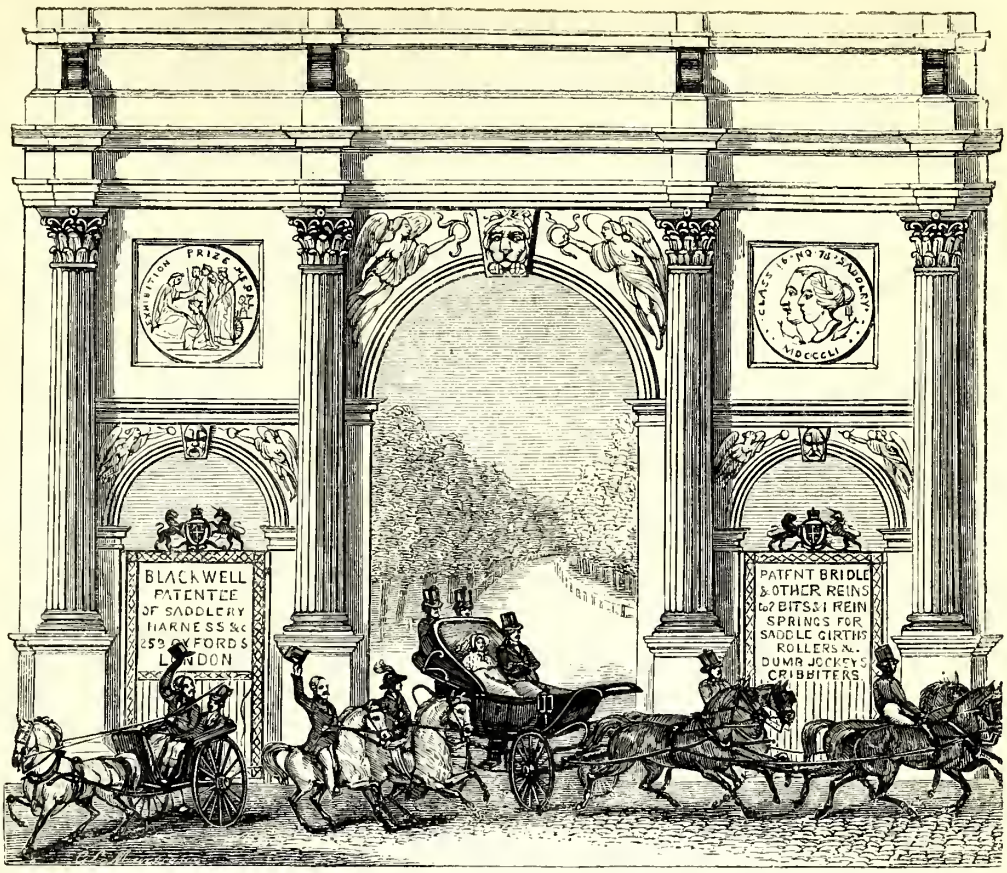
de BLACKWELL,

259, Oxford Street, pres de Marble Arch.

(Etabli en 1794.)

DEPÔT A LA CITE, 24, Walbrook, près de Cannon Street, Londres.
PALAIS DE CRISTAL à Sydenham, Section de la Sellerie.
AGENT POUR L'ECOSSE, M FULTON, Sellier, 86, George Street, Edinbourg.
EXPOSITION DE PARIS, Section de la Sellerie, 5e Classe, No. 325.
AGENTS MM. HENOQUE et VANWEARS, 14, Rue Basse du Rempart, Paris.

On cède des Patentes ou des Licences pour la Vente des Objets ci-dessus en France, en Autriche, en Bavière et en Hollande.



BLACKWELL'S FOUR PATENTS FOR SADDLERY, HARNESS, &c.

VULCANIZED INDIA-RUBBER SPRINGS for Saddle Straps or Girths; keeping one tightness, prevent stopping to tighten or loosen the Girths, 2*s.* each; three are used on the near side of a Saddle, 6*s.*

Ladies' Saddles, having leather Surcingles, allow no freedom of breathing, and produce accidents. The Patent Springs are attached to the Girths and Surcingles, 2*s.* each.

Pair of Girths with Patent Springs, 10*s.*

Patent Spring and Girth Strap attached, 3*s.*

They are also applied to Rollers, Military, Riding, and other Belts, Martingales, and all parts of Saddlery and Harness, where elasticity is of service, from 2*s.* each.

The Patent Springs buckled to the Curb-Rein of a Lady's, Gentleman's, or Military Bridle, and attached to the bradoon, allows the Horse to be ridden with two bits and one rein only; while the Horse goes quietly, the pull is on the bradoon; as soon as he pulls the spring stretches, and the rein then acts on the curb. Many Horses do not pull when alone; in company (as Ladies usually are) they pull hard; and timid riders cannot use the wrong rein, having only one in hand.

The same Spring is attached to all Driving-Reins, to drive from the check or bradoon; and when the Horse pulls hard it elongates, and the pull is on the curb, 4*s.* to 7*s.* each.

Patent Springs to Side, Gag, and Bearing Reins, allowing the Horse to put out and lower his head.

Patent Springs, to prevent a Horse taking the side of the Bit over the tush and running away.

Patent Gutta-Percha Jockeys, for Breaking and Bitting Horses, rendering them easy-mouthed and temperate, and exercising in bad weather, with Patent Vulcanized India-Rubber Springs, stretching from 15 to 30 inches, or any length; varying in strength from the pull of a Lady's light hand to a strong pull to make a Horse back, 50*s.* and 60*s.*

Wood Jockeys with Patent Springs, 30*s.* and 40*s.*

Patent Springs are applied to old Jockeys, making them perfect, with two or four Springs, at 4*s.* each.

A Pair of Springs, one end attached to a Saddle, Gig Saddle, or the Shafts, and the other to the Bit, Bradoon, or *Noseband* of a very hard-pulling Horse; ease the hand, and frequently make him easy-mouthed.

Patent Brass Springs for Pillar-Reins, &c., 1*s.* 6*d.*

Strong Iron, Brass, and German-Silver Patent Springs for Collar Reins, Chains, Ropes, Reins, &c.

Patent Gutta-Percha Anti-Crib-biter, so constructed as not to injure the Mane, and prevent Crib-biting; very light and elastic, 12*s.* and 15*s.*

Patent Vulcanized India-Rubber. Web Boots of all widths, for Fetlocks, Leg Boots, and Speedy-Cut Boots; elastic and porous, 4*s.* to 10*s.*

Patentee of Shot-Belts and Powder-Flasks with Vulcanized India-Rubber Springs. Cannot explode from friction or rust, and become useless, as the present Steel Springs do.

BLACKWELL'S SADDLERY & HARNESS MANUFACTORY.

(Established 1794.)

259, Oxford Street, near the Marble Arch.

CITY DEPÔT, 24, Walbrook, two doors from Cannon Street, London.

SADDLERY DEPARTMENT, Crystal Palace, Sydenham, and of all Saddlers.

AGENT for SCOTLAND, Mr. FULTON, Saddler, &c., 86, George Street, Edinburgh.

SADDLERY DEPARTMENT, Paris Exhibition, Class V., No. 325.

AGENTS, Messrs. HENOQUE and VANWEARS, 14, Rue Basse du Rampart, Paris.

The Patents for Sale, or Licences granted for France, Austria, Bavaria, Belgium, and Holland.

ROYAL NATIONAL LIFE-BOAT INSTITUTION,

For the Preservation of Life from Shipwreck,

FOUNDED IN 1824.

Supported by Voluntary Contributions.

PATRONESS.

HER MOST GRACIOUS MAJESTY THE QUEEN.

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The object of this Institution, as declared in its title, is to rescue wrecked persons around the coast of the United Kingdom.

The chief means by which it is endeavoured to carry this into effect are :—

By the establishment of efficient life-boats on the points of the coast most exposed to shipwreck, and the organization and training of crews ready to man the boats at all times, in case of wreck.

By placing mortar or rocket apparatus for effecting communication with stranded vessels at those stations at which it is likely to be of service.

By granting pecuniary rewards to persons who go off in life-boats, or otherwise assist in saving life from wreck ; and by conferring honorary gold and silver medals for distinguished gallantry in such service.

To enable the Committee effectually to perform this important work, the generous co-operation of the public is earnestly solicited.

One Guinea per annum constitutes an Annual Governor, and a donation of Ten Guineas Life-Governor. Donations and Subscriptions will be thankfully received by Messrs. Willis, Percival, and Co., 76, Lombard-street, Bankers to the Institution; Messrs. Herries, Farquhar, and Co., 16, St. James's-street; Messrs. Coutts and Co., 59, Strand; London and County Bank, 21, Lombard-street ; by the several Metropolitan Army and Navy Agents; and at the Office of the Institution, 14, John-street, Adelphi, London, where Applications on behalf of parties who have been instrumental in Saving, or in Attempting to Save, Lives from Shipwreck, are also to be made.

INSTITUTION ROYALE ET NATIONALE DES CANOTS DE SAUVETAGE,

POUR VENIR EN AIDE AUX NAUFRAGÉS.

FONDÉE 1824.

ET MAINTENUE PAR CONTRIBUTIONS VOLONTAIRES.

Le but de cette Institution est, ainsi que l'indique son nom, de venir en aide à tout naufragé sur les côtes du Royaume-Uni.

Les moyens par lesquels l'Institution s'efforce d'atteindre ce but peuvent ainsi se résumer :—

1°. Elle accorde, à titre de récompenses honoraires, des médailles et des mentions honorables et alloue des récompenses pécuniares à toute personne qui a affronté la mort en s'efforçant de porter aide aux équipages de navires naufragés ou en danger sur les côtes du Royaume-Uni, ou à tout individu menacé du même sort. Dans certains cas exceptionnels, les récompenses honoraires sont accordées aux services du même genre rendus dans d'autres parties du monde.

2°. L'Institution fait construire des Canots de Sauvetage d'après les meilleurs modèles; elle leur assigne des stations, veille à leur entretien et à leur équipement, avise à la construction de hangars pour les remiser et de chariots pour les transporter sur les lieux de danger; bref, elle s'assure, par l'entremise de commissaires locaux, de l'emploi judicieux des canots et du bon état de leurs équipages.

3°. Elle fait élever sur les points les plus convenables des côtes des appareils qui communiquent au moyen de fusées volantes avec les navires qui ont échoué.

Les opérations de la Commission peuvent se résumer comme suit :—

Depuis la fondation de l'Institution, il a été distribué 79 médailles d'or, 547 médailles d'argent et des récompenses pécuniaires dont le chiffre dépasse £9,200, et plus de 9,200 naufragés ont été arrachés à une mort imminente.

La Commission a, en outre, consacré près de £10,000 à la construction de Canots de Sauvetage et à l'établissement d'appareils à fusées élevés sur divers points de la côte et dont l'usage a préservé de la mort un grand nombre de naufragés.

Les services de l'Institution appartenant à la nation entière et ses opérations ayant lieu sur les diverses côtes du Royaume-Uni, il est évident que chaque individu doit s'intéresser à ses œuvres, à son développement, développement que l'accroissement des sinistres résultant de la vaste extension de notre commerce maritime rend chaque jour plus urgent.

RICHARD LEWIS,
Secrétaire.

Institution Royale et Nationale des Canots de Sauvetage,
14, *John Street, Adelphi, London.*
May, 1855.

PARIS EXHIBITION, 1855.—Class XX., Group VI., Rotation No. 2217.

JOHN J. & WILLIAM WILSON,

Woollen Manufacturers,

CASTLE MILLS, KENDAL,

ENGLAND.

RAILWAY WRAPPERS.

WOOLLEN COAT LININGS.

HORSE SHEETINGS. SADDLE CLOTHS.

COLLAR CLOTHS, checked and plain.

Prize Medal,—Great Exhibition, 1851,—Class 12.

EXPOSITION UNIVERSELLE DE PARIS, 1855. — Classe XX., Groupe VI., Rotation No. 2217.

JOHN J. & WILLIAM WILSON,

Fabricants de Draps,

CASTLE MILLS, KENDAL,

ANGLETERRE.

COUVERTURES POUR VOYAGER
SUR LES CHEMINS DE FER.

DOUBLURES EN LAINE POUR VETEMENS.

COUVERTURES DE CHEVAL.

HOUSSES.

DRAPS POUR LES COLLIERS, A CARREAUX OU UNIS.

Prix,—Exposition de 1851,—Classe 12.

BANKEND MILL, PAISLEY,

SCOTLAND.

JAMES CARLILE, SONS, & Co.

MANUFACTURERS OF

COTTON AND LINEN THREADS.

Carlile's List of Threads,

ON WOOD, IVORY, AND METALLIC REELS, IN HANK AND IN BALLS.

9 Cord Upholsterers' Thread.

6 ,, Black and Brown Netting.

6 ,, Crochet, White, Black, and Colours, on Reels and in Balls.

6 ,, 300, 200, and 100 yards, Sewings.

3 ,, ,, ,, ,, ,, ,, also in Super 6 and 3 Cord fast Colours.

3 Cord Red and Blue Marking Cotton.

3 and 2 Cord Linen Thread on Reels.

Moravian Cotton, 3 to 13 ply, in fancy Boxes.

Linen Flourishing in fancy Boxes and in Skeins.

Wire or Bonnet Cotton in Skeins, No. 8 to 40.

Embroidery and Flowering Cottons.

Darning Cotton, White, Black, and Marled.

3 and 2 Cord Thread in Balls.

Liste des Fils de la maison Carlile,

SUR BOBINES DE BOIS, D'IVOIRE, ET DE METAL, EN ECHEVAUX ET EN PELOTES.

9 Cordes Fils pour Tapissier.

6 ,, Brun et Noir pour Riseau.

6 ,, Blanc et Noir et de Couleur pour Crochet sur Bobines et en Pelotes.

6 ,, 300, 200 et 100 mètres pour Couture.

3 ,, ,, ,, ,, Qualité Supérieure.

6 et 3 Cordes Bon Teint.

3 Cordes Coton Rouge et Bleu à Marquer.

3 et 2 Cordes Fils de Liu sur Bobines.

Coton Moravien de 3 et 13 Fils en Boîtes de Fantaisie.

Fils de Lin pour Broderie en Echeveaux et en Boîtes.

Fil Empesé en Echeveaux pour Chapeau de paille du 8 à 40.

Coton pour Broderie et Soutache.

Coton Blanc, Noir et Gris, pour Ravaudage.

3 et 2 Cordes Fils en Pelotes.

RICHARD SMITH,

Manufacturing Chymist,

NO. 30, ST. ENOCH SQUARE,

GLASGOW,

Manufacturer of Rosin Oil and Grease,

FOR ECONOMICAL LUBRICATION,

Calls the attention of

RAILWAY CONTRACTORS, COAL & IRON MASTERS, FARMERS, MILLOWNERS, & MANUFACTURERS GENERALLY,

to those Articles which are exhibited in

CLASS X. SECTION 2, No. 957.

POMMIER & Co.

ALEXANDRIA, DUMBARTONSHIRE,

Scotland.

MANUFACTURERS OF

ARCHIL, COLOURS, AND CHEMICAL PRODUCTS,

FOR

DYING AND PRINTING ON CLOTH.

EGG ALBUMEN, WARRANTED PURE.

ALBUMENOUS PRODUCTS.

SOLE IMPORTERS, BY CONTRACT, OF

THE BEAUTIFUL IMPALPABLE DARK ULTRAMARINE BLUE,

OF

GUIMET OF LYONS,

Specially prepared for printing on Fabrics, and which was awarded the

COUNCIL MEDAL,

AT THE

LONDON EXHIBITION OF 1851.

Paste Archil, blue or red	from 20/. to 30/. per cwt.
Liquid Archil, do. for Silk in Skeins .	from 45/. to 50/. do.
Archil Liquor for Chocolate Colour . .	from 55/. to 70/. do.
Carmine of Archil for Dahlia Colour . .	from 1/6 to 2/2 per lb.
Cudbeard, common and superfine . . .	at different prices.

JOHN RUSSELL & COMP.Y

69 UPPER THAMES STREET, LONDON,

AND

WEDNESBURY, STAFFORDSHIRE,

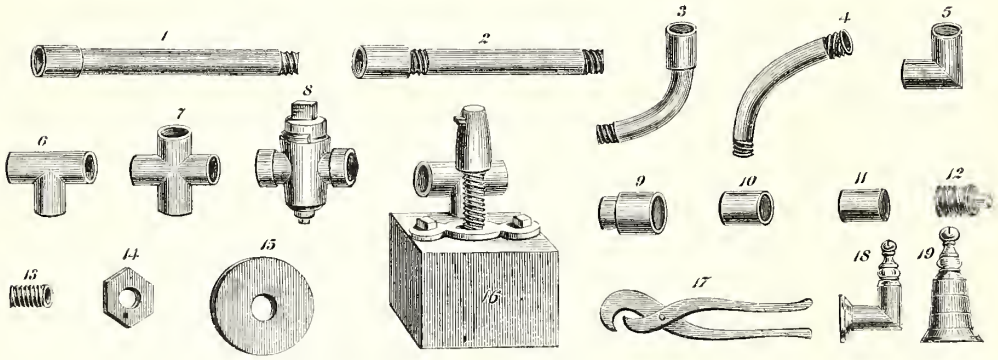
Manufacturers of

PATENT WELDED IRON TUBES AND FITTINGS

FOR GAS, STEAM, AND WATER,

LAP-WELDED TUBES FOR LOCOMOTIVE & MARINE BOILERS.

ESTABLISHED AT THE COMMENCEMENT OF GAS LIGHTING.



HYDRAULIC AND HOT WATER PIPES.

LAP-WELDED BOILER TUBES.

CORE BARS FOR IRON FOUNDERS AT PER POUND.

Gas Metres, Cast Iron Pipes for Mains, and all Gas Requisites supplied.

JOHN RUSSELL AND COMPY

69 UPPER THAMES STREET, LONDON.

LIST OF PRICES SUBJECT TO DISCOUNT PER CENT.

	SIZES.	2 in.	1½ in.	1¼ in.	1 in.	¾ in.	½ in.	⅜ in.	¼ in.	⅛ in.
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1	Gas Tube, in lengths from 4 to 12 ft.	1 8	1 1	0 10	0 7	0 5	0 4¼	0 3¾	0 3¼	0 3 per ft.
	Ditto, from 2 to 4 ft. lengths, 1d. per ft. extra.									
	Short pieces under 2 ft. . .	3 0	2 0	1 9	1 3	1 0	0 9	0 7	0 6	0 5 each
2	Connecting pieces or long Screws	3 6	2 3	2 0	1 6	1 2	0 11	0 9	0 8	0 7 „
3	Bends, and (4) Springs, wrought iron	3 9	2 3	1 9	1 0	0 10	0 8	0 7	0 6½	0 6½ „
	Cast Bends	3 9	2 3	1 9	0 11	0 9	0 7	–	–	– „
5	Elbows, wrought, equal or diminished	3 9	2 3	1 9	1 0	0 10	0 8	0 7	0 6½	0 6½ „
	Ditto, cast iron, ditto . . .	3 6	2 0	1 6	0 11	0 9	0 7	0 5½	0 5	0 5 „
6	Tees, wrought, equal or diminished	3 9	2 6	2 0	1 6	1 1	0 9	0 7	0 6½	0 6½ „
	Ditto, cast iron, ditto . . .	3 6	2 3	1 9	1 3	1 0	0 7	0 6	0 5	0 5 „
7	Crosses, wrought, equal or diminished	4 9	3 3	3 0	2 3	1 9	1 6	1 3	1 0	1 0 „
	Ditto, cast iron, ditto . . .	4 3	2 9	2 6	1 9	1 6	1 2	1 0	0 9	0 9 „
8	Iron Main Cocks	18 0	11 0	8 6	5 0	3 9	3 0	2 6	2 6	2 6 „
	Ditto, with brass plugs . .	34 0	21 6	16 6	9 9	6 9	5 6	4 6	–	– „
9	Sockets, diminished . . .	1 3	0 9	0 8	0 6	0 5	0 4½	0 4½	0 4	0 4 „
10	Sockets, plain	1 0	0 8	0 7	0 5	0 4	0 3	0 3	0 2½	0 2½ „
11	Caps, (12) Plugs, (13) Nipples, and (14) Backnuts . . .	1 3	0 9	0 8	0 6	0 5	0 4½	0 4½	0 4	0 4 „
15	Flanges	2 0	1 9	1 6	1 4	1 2	1 0	0 10	0 10	0 10 „
16	Syphon, 2 quarts	20 0	19 0	18 0	17 0	16 0	–	–	–	– „
	Ditto, 1 quart	16 0	15 0	14 0	13 0	12 0	–	–	–	– „
17	Tongs or Nippers, each pair, net	5 0	4 6	4 3	3 9	3 3	2 9	2 6	2 0	2 0 „
18	Elbow Burners, Jet or Batwing, per dozen, net . . 4s.									
19	Straight Burners . . . . . net . . 3s. 6d.									

Stocks, Dies, and Taps, for 2 in., 1½ in., and 1¼ in. tubing . . £4 10 0 per set
Ditto ditto, for 1 in., ¾ in., and ½ in. „ . . 2 15 0 „
Ditto ditto, for ⅜ in., ¼ in., and ⅛ in. „ . . 1 12 6 „
} Net.

JOHN RUSSELL ET C^IE,

N° 69 UPPER THAMES STREET, À LONDRES.

ET

WEDNESBURY, DANS LE STAFFORDSHIRE,

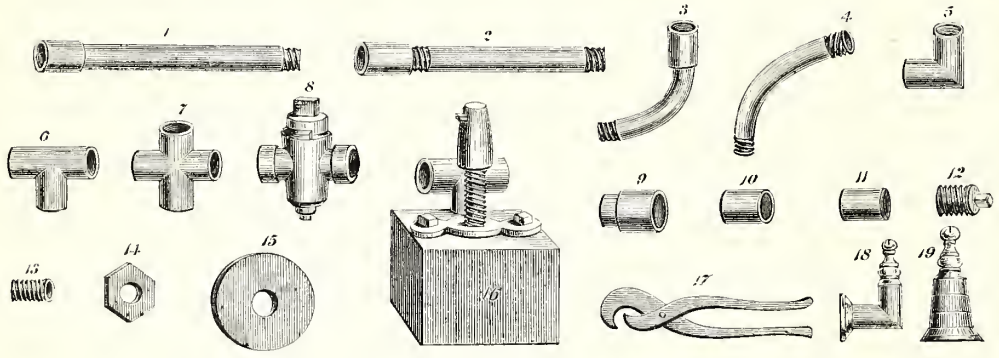
Fabricants de

TUYAUX EN FER LAMINÉS PATENTÉS D'APPAREILS

POUR LE GAZ, LA VAPEUR, ET L'EAU,

DE TUYAUX FERMÉS EN DOUBLE ET LAMINÉS POUR LES CHAUDIÈRES DE LOCOMOTIVES ET CELLES EN USAGE DANS LA MARINE.

ETABLIS DÈS LE COMMENCEMENT DE L'ECLAIRAGE AU GAZ.



TUYAUX HYDRAULIQUES ET TUYAUX POUR L'EAU CHAUDE.

TUYAUX DE CHAUDIÈRE FERMÉS EN DOUBLE ET LAMINÉS.

FERS EN BARRES POUR LES FONDEURS DE FER A LA LIVRE.

On fournit des Gazomètres, des Tuyaux en Fer Coulé pour les grands Conduits et tous les Appareils à Gaz et leurs Accessoires.

JOHN RUSSELL ET C^IE.

N° 69 UPPER THAMES STREET, À LONDRES.

LISTE DES PRIX NETS.

	DIMENSIONS. En pouces	2	1½	1¼	1	¾	½	⅜	¼	⅛
		s. *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*
1	Tuyaux à gaz de 4 à 12 pieds de longueur. . . . . Idem, de 2 à 4 pieds, ½*d.* par p. extra.	0 10	0 6½	0 5	0 3½	0 2½	0 2¼	0 2	0 1¾	0 1½ par p.
	Bouts courts au-dessous de 2 pieds	1 6	1 0	0 10½	0 7½	0 6	0 4½	0 3½	0 3	0 2½ chaque.
2	Pièces d'ajustement, ou longues vis	1 9	1 1½	1 0	0 9	0 7	0 5⅓	0 4½	0 4	0 3½ „
3	Bonds, et (4) ressorts en fer forgé	1 10½	1 1½	0 10½	0 6	0 5	0 4	0 3½	0 3¼	0 3¼ „
	Idem coulé	1 10½	1 1½	0 10½	0 5½	0 4½	0 3½	-	-	- „
5	Coudes forgés, parellèles or diminués	1 10½	1 1½	0 10½	0 6	0 5	0 4	0 3½	0 3¼	0 3¼ „
	Idem, en fer coulé, idem . .	1 9	1 0	0 9	0 5½	0 4½	0 3½	0 2¾	0 2½	0 2½ „
6	Boîtes forgées, parallèles ou diminuées	1 10½	1 3	1 0	0 9	0 6½	0 4½	0 3½	0 3¼	0 3¼ „
	Idem, coulés, idem	1 9	1 1½	0 10½	0 7½	0 6	0 3½	0 3	0 2½	0 2½ „
7	Croix forgées, parallèles or diminuées	2 4½	1 7½	1 6	1 1½	0 10½	0 9	0 7½	0 6	0 6 „
	Idem, coulées, idem. . . .	2 1½	1 4½	1 3	0 10½	0 9	0 7	0 6	0 4½	0 4½ „
8	Grands robinets en fer. . .	9 0	5 6	4 3	2 6	2 0	1 6	1 3	1 3	1 3 „
	Idem, avec des soupapes en cuivre	17 0	10 9	8 3	5 0	3 6	2 9	2 3	-	- „
9	Bobêches, diminuées . . .	0 7½	0 4½	0 4	0 3	0 2⅔	0 2¼	0 2¼	0 2	0 2 „
10	Bobêches, simples	0 6	0 4	0 3½	0 2½	0 2	0 1½	0 1½	0 1¼	0 1¼ „
11	Caps, (12) soupapes, (13) mortaises, (14) écrous . . .	0 7½	0 4½	0 4	0 3	0 2½	0 2¼	0 2¼	0 2	0 2 „
15	Collerettes	1 0	0 10½	0 9	0 8	0 7	0 6	0 5	0 5	0 5 „
16	Syphon de 2 quarts . . .	10 0	9 6	9 0	8 6	8 0	-	-	-	- „
	Idem de 1 idem	8 0	7 6	7 0	6 6	6 0	-	-	-	- „
17	Tenailles ou pinces, la paire .	5 0	4 6	4 3	3 9	3 3	2 9	2 6	2 0	2 0 „
18	Becs à gaz en coude, la douzaine . . . . . 4*s.*									
19	Becs droits, idem . . . . . 3*s.* 6*d.*									

Instruments à faire des vis et tarauder pour des tuyaux	de 2 pouces, 1½ et 1¼ . .	£4 10 0	l'assortiment.
Idem idem idem	de 1 pouce, ¾ et ½ . .	2 15 0	
Idem idem idem	de ⅜ pouce, ⅖ et ⅛ . .	1 12 6	

JOHN ELCE & CO.,

BRASS AND IRON FOUNDERS,

MAKERS OF

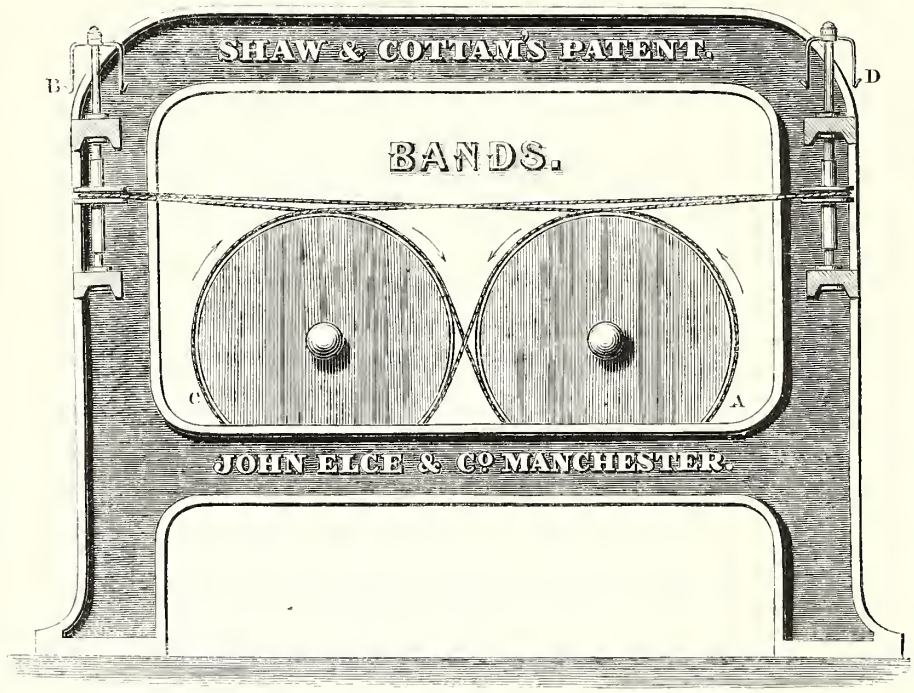
All Descriptions of Cotton Machinery, Lathes, Tools, &c.,

PHŒNIX IRON WORKS,

JERSEY STREET, MANCHESTER,

SHAW & COTTAM'S PATENT COMPOUND CYLINDERS,

FOR THROSTLE AND DOUBLING FRAMES.



It will be seen from the accompanying Sketch that the Cylinder A drives the Spindle B, and the Cylinder C the Spindle D; also that each Spindle is driven with a separate Band.

The Patent Machine takes 20 per cent. less power, in consequence of having a longer Band; in addition to which, the Band also having hold of a greater surface of the Wharve, does not require to be so tight, and, going in a straight line from the top of the Cylinder to the Wharve, and not at a great angle, as upon the old plan, the friction of the Band riding upon the flange of the Wharve is dispensed with, which, in addition to saving power, causes a much less wear and tear of Spindles and Bands.

It will be seen that the Tin Rollers and Wharves may be made of any diameter, which is not the case in the old plan; as, by enlarging either diameter of Roller or Wharve, the angle of the Band is increased. The advantage of large diameters is well known.

Uniformity of Twist is obtained by this invention by means of larger Wharves, and the greater hold the Band has of the surface of the Wharve.

The Patent Machines dispensing with the angle of the Band (and that being the only impediment), they can consequently be made narrower. Thus, 2 ft. 6 in. Frames are used instead of 3 ft. 6 in. as on the old plan, effecting a saving of 30 per cent. in room.

N.B. Since the introduction of this improvement, J. E. & Co. have made and set to work upwards of 300,000 Spindles, which are giving great satisfaction.

LIST OF ARTICLES MADE AND SOLD BY

JOHN ELCE & CO.,

MACHINE AND TOOL MAKERS,

Brass and Iron Founders,

PHŒNIX IRON WORKS,

JERSEY STREET, MANCHESTER.

Openers.

Single, Double, and Treble Beater Scutchers, with all latest Improvements.

Carding Engines, Single or Double, with either Wood or Iron Cylinders, Doffers, &c.

Grinding Machines for Ditto.

Drawing Frames with Plungers and Can Motion, or Coilers, with Patent Can Stop Motion, and Silver Stop Motion.

Stopping Motions applied to old Drawing Frames and Slubbing Frames.

Coilers for Carding Engines.

Do. applied to old Drawing Frames.

Slubbing and Roving Frames, with Single or Double Cone Drums, with Improved Spindle Collars and Under Fly Socket, Soft Bobbin, Single, Double, or Centrifugal Pressers, and Mason's Tube, if required.

Throstle Frames, with Short or Long Spindle, Stationary or Travelling Bolster, any width from 2 feet 6 inches to 3 feet 6 inches, with Lists, Single Tin Roller for Bands, or SHAW & COTTAM'S Patent Compound Cylinders for Bands: S. F. COTTAM'S Registered Improved Spindle Bearings, and C. CARR'S Registered Improved Spindle Toe Bearings.

Doubling Frames do. do. do.

Hand Mules for coarse, medium, or fine Yarns.

Self-Acting Mules, for Twist or Weft, SHARP & ROBERTS' principle with J. E. & Co.'s Patented Improvement, with Tin Rollers, or Drums driven by Geering.

Self-Acting Mule Headstocks applied to Hand Mules, as above.

Winding Frames for Throstle Bobbins and Mule Cops.

SMITH'S Patent Self-Acting Stripping Machines, for stripping Carding Engine Cylinders.

Looms for all sorts of Cloths with latest Improvements.

SMITH'S Patent Temples.

Do. do. Improved.

ELCE & BOND'S Patent Temples.

Indicators, or Clocks, for Drawing, Slubbing, Roving, or Throstle Frames or Mules, indicating as high as 100 Hanks, and as low as the 100th part of a Hank.

ROBERTSON'S Registered Rove Reel for wrapping Slubbings or Rovings.

JOHN ELCE & Co.'s Registered Dynamometer, to ascertain the power taken to drive any Machine.

Planing Machines.

Hand and Slide Lathes, with Single Speed or Double Power and for Screw Cutting.

Patent Universal Chucks.

Centering Machines.

Single and Double Power Drilling Machines.

Single or Double Power Slotting Machines.

Universal Self-Acting Shaping Machines.

Bolt and Nut Screwing Machine.

Wheel Cutting and Dividing Engines.

Cutter Making and Milling Engines.

Hand Planing Machines.

Portable Bench Machines.

WHITE'S Patent Portable Vices.

Ratchett Drill Braces.

Improved Screw Jacks.

Screw Stocks, Taps and Dies, &c.

Top Roller Ending Machines.

Wheels. Screws or Worms made or cut to order. Shafting of all sizes for Mill Geering and Machinery made to order.

BREVET DE MESSRS. SHAW ET COTTAM,

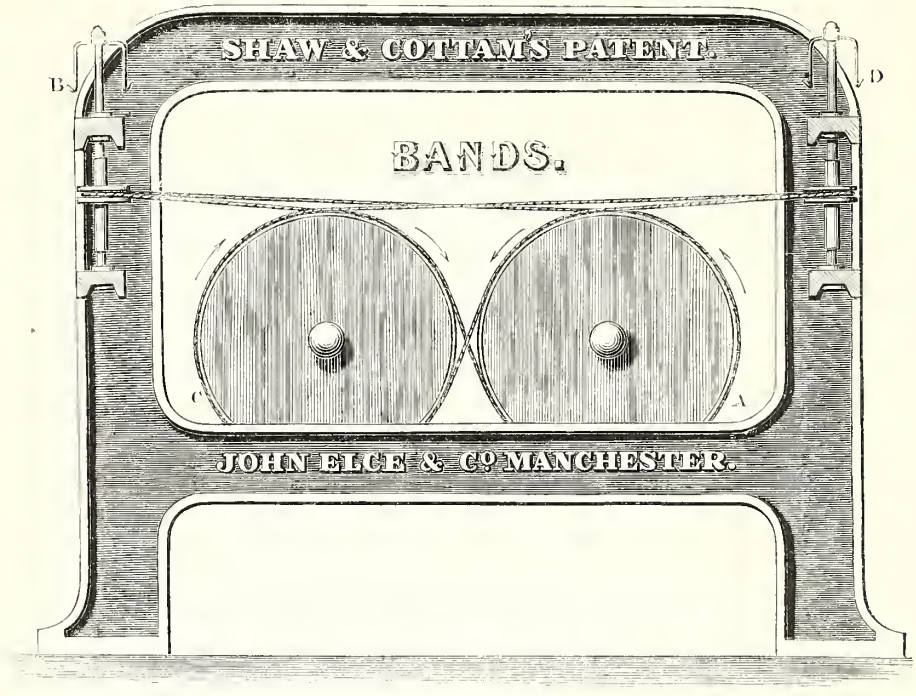
CONTINUS ET METIERS A DOUBLER AVEC DEUX TAMBOURS,

FABRIQUÉS PAR JOHN ELCE ET C^IE,

FONDEURS DE FER ET DE LAITON,

CONSTRUCTERS D'OUTILS ET DE MACHINES EMPLOYÉES DANS LES FILATURES DE COTON, &c.,

FONDERIE DU PHŒNIX, À MANCHESTER.



On voit dans la gravure que le tambour A fait marcher la broche B, et que le tambour C fait marcher la broche D, et que chaque broche est munie d'une bande séparée.

Le système breveté épargne 20 pour cent de la force motrice, parceque les bandes sont plus longues, et puisque la bande est en contacte avec une plus grande surface de la poulie elle peut être moins tendue; la bande étant en ligne droite en allant du tambour à la poulie, et non pas en ligne diagonale, comme dans le vieux système, on évite le frottement de la bande sur les rebords de la poulie, et de cette manière on épargne la force motrice et la détérioration des broches et des bandes.

On peut aussi augmenter à volonté le diamètre des tambours ou des poulies, mais ceci ne peut pas se faire dans l'ancien système, car en augmentant l'un ou l'autre l'angle de la bande est augmenté. Les avantages des grands diamètres sont bien connus par les fileurs.

On obtient une grande régularité dans la torsion du fil en ayant de grandes poulies et en ayant plus de contacte sur leur surface.

Les machines perfectionnées sont 2 pieds 6 pouces de large, et on peut ainsi en placer deux dans une espace de 9 pieds, et les machines de 2 pieds 6 pouces de cette construction seront munie de bandes plus longues que les machines de 3 pieds 6 pouces de l'ancien système. On conçoit bien que les anciennes machines ne peuvent être rétrécies sans augmenter l'angle de la bande et diminuer le diamètre du tambour et des poulies.

Ces machines fonctionnent dans beaucoup de filatures, et pendant les premiers 18 mois du brevet plus de 100,000 broches ont été mises en train.

MACHINES ET OUTILS

PAR

JOHN ELCE ET Cie,

PHŒNIX IRON WORKS,

JERSEY STREET, MANCHESTER.

Loups pour ouvrir le coton (Wilows).

Batteurs, avec les dernières améliorations, à un, deux, ou trois battants.

Cardes à simple ou double cardage, soit avec tambours en bois ou en fonte.

Machines à aiguiser pour dito.

Etirages à plongeurs, pots tournants avec mouvement d'arrêt (breveté) pour pots et mouvement d'arrêt pour rubans.

Mouvements d'arrêt appliqués aux étirages et banes-à-broches en gros.

Pots tournants appliqués aux cardes et étirages.

Banes-à-broches, en gros et en fin, avec tambours côniques, simple ou double, supports de broches et ailettes améliorés, bobines cylindriques ou côniques, avec presseurs simples, doubles, ou à force centrifuge, et avec tubes, breveté, par Mason.

Continus, broches longues ou courtes, porte-bobines fixes ou mobiles : largeur de $2\frac{1}{2}$ à $3\frac{1}{2}$ pieds ; avec rubans ou cordes et simple tambour, ou bien à double tambour, selon le système breveté de Shaw et Cottam : tubes brevetés de S. F. Cottam ; crapaudines brevetées de C. Carr.

Continus à doubler, même système.

Métiers à filer à la main pour les Nos gros, moyens et fins.

Métiers à filer automates (self-acting), pour chaîne et trame, système Sharp et Roberts, avec améliorations brevetées, par John Elce et Cie ; tambours horizontaux en fer-blanc ou verticaux, et mus par engrenages.

Têtes de métiers automates appliquées aux anciens métiers à filer à la main.

Dévidoirs pour fuseaux et bobines.

Machine à débourer les tambours de cardes (self-acting) brevet, *Smith*.

Métiers à tisser toutes espèces d'étoffes avec les améliorations les plus récentes.

Temples, brevet Smith.

Id. Id. améliorés.

Temples, brevet Elce et Bond.

Compteurs pour étirages, banes-à-broches, en gros et en fin, continus. Mulljenies, etc., indiquant de 1/100 jusqu'à 100 écheveaux.

Dévidoir-à-épreuves, brevet Robertson.

Dynanomètre de John Elce et Cie, pour constanter la force qu'absorbe une *mécanique* quelconque.

Machines à raboter.

Tours à la main, tours en brut à poulies de vitesse avec ou sans engrenages, tours à couper les vis.

Plateaux universels pour tours.

Machines à centrer.

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5482	Ditto 6 do.	2 15 0
5363	Ditto 6 do.	2 3 0
5368	Ditto 6 do.	2 4 0
5070	Waiter, 12 inches	1 7 6
4958A	Do. 14 do.	2 2 0
5464	Do. 12 do.	2 5 0
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5467	Vinaigrette	2 8 0
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5350	Egg Frame, 6 cups	2 10 0
5465	Ditto 6 do.	2 17 0
5181	Egg Basket, 6 cups	2 12 6
5138	Ditto 6 do.	2 2 0
5473	Claret Jug	3 8 0
5297	Toast and Egg Stand	1 7 6
4960	Toast Rack	0 10 6
5180	Ditto	0 13 6
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5251	Butter Cooler	1 3 0
5445	Ditto	1 17 6

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5210	Ditto	3 5 0
5143	Sugar Basket	0 19 0
5145	Ditto	0 17 0
5376	Ditto	0 18 6
5480	Ditto	1 7 6
5438	Ditto	1 4 0
5439	Ditto	1 4 0
5481	Ditto	1 5 0
5407	Ditto	1 0 0
5015	Ditto	1 3 0
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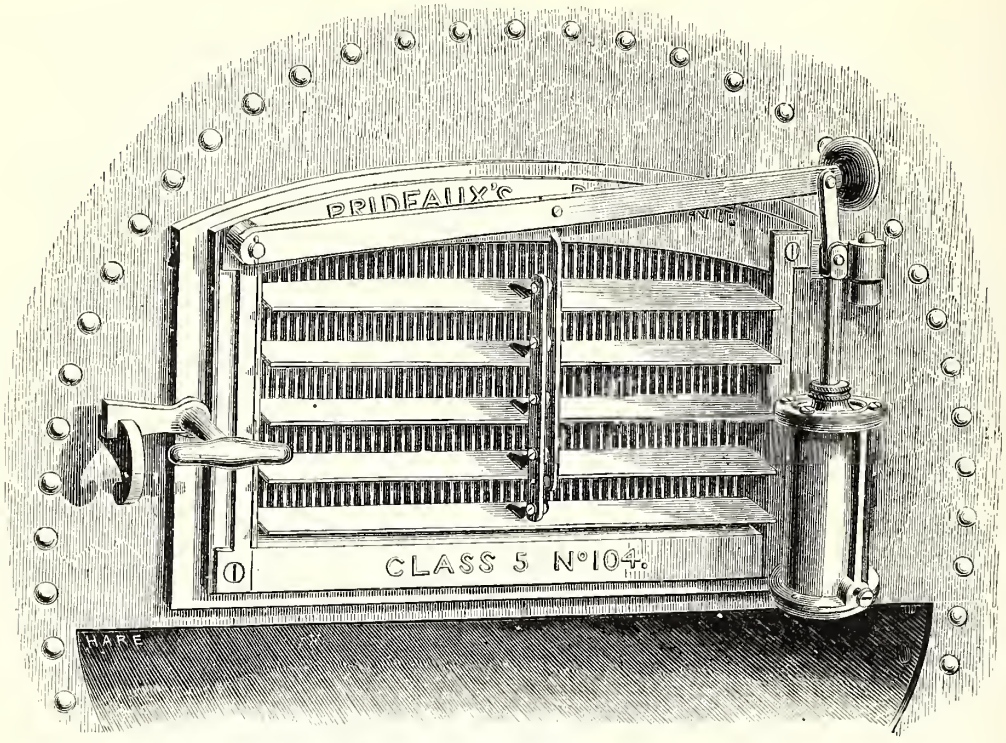
5150	Mustard	0 10 6
5215	Ditto	0 8 6
5411	Ditto	0 10 6
5310	Ditto	0 9 0
5460	Ditto	0 10 6
5390	Salts, per pair	0 11 6
4938	Chamber Candlesticks, per pair	0 15 0
428	Ditto, each	0 10 6

Increase and Decrease on all Cruet Frames, excepting 5002, 3*s.* per Bottle.

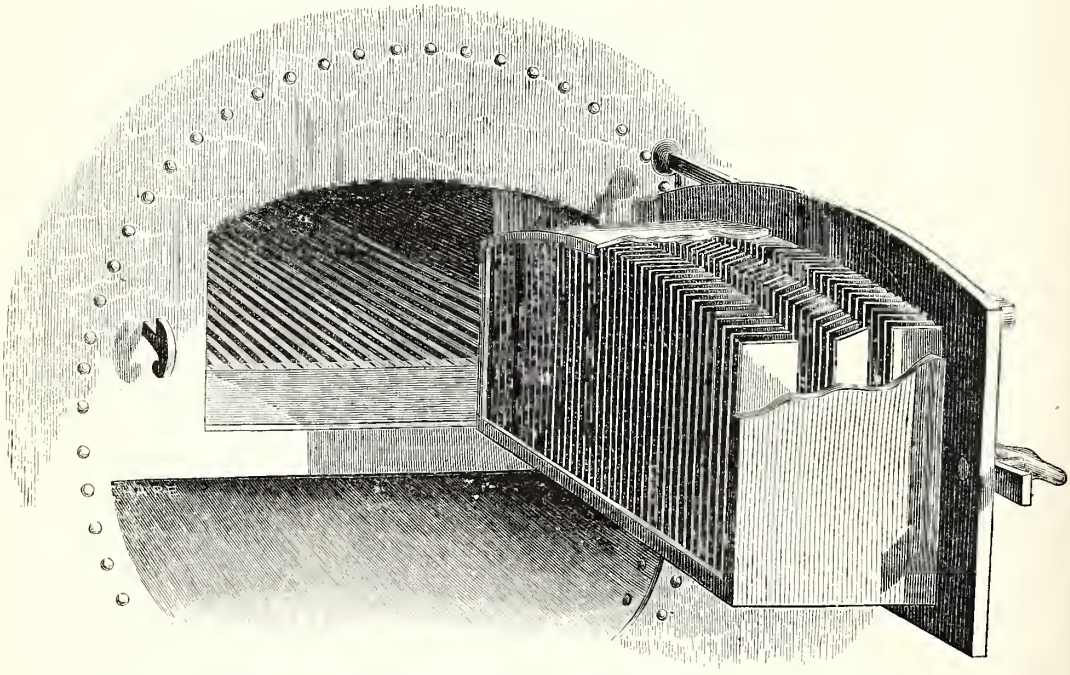
Egg Frames 4*s.* per Cup, except 5181, which Increases and Decreases 5*s.* per Cup.

SOUPAPE DE FOURNEAU QUI SE FERME D'ELLE-MEME, INVENTÉE PAR PRIDEAUX ET PATENTÉE.

Cette Soupape sera bientôt pour le Fourneau
un accessoire aussi indispensable que l'est actuellement le Régulateur dans une Machine à Vapeur.



Vue de la Soupape telle qu'elle est fixée dans la porte du Fourneau.



La Soupape vue de derrière, avec une portion de la Boîte retirée, pour montrer l'agencement des plaques dans l'intérieur.

COMPAGNIE POUR EMPECHER LA FUMÉE
32 CHARING CROSS,
LONDRES.

SOUPAPE DE FOURNEAU QUI SE FERME D'ELLE-MEME, INVENTÉE PAR PRIDEAUX ET PATENTÉE.

CETTE nouvelle invention a beaucoup plu à tous ceux qui l'ont vue fonctionner, à cause de sa simplicité et de son efficacité. Le pouvoir qu'elle a D'EMPECHER LA FUMÉE, D'ÉCONOMISER LE COMBUSTIBLE ET DE RÉDUIRE LA TEMPÉRATURE DE LA MACHINE À VAPEUR, a été reconnu d'une manière irrécusable par un nombre multiplié d'expériences dans lesquelles on l'a fait fonctionner avec toutes sortes de fourneaux. Il y en a déjà 400 ou 500 qui fonctionnent, et leur action est d'une perfection tellement évidente qu'elle ne laisse rien à désirer. Non seulement elles-empêchent la fumée, mais encore elles produisent ce résultat en rendant sous tous les rapports l'action du fourneau plus puissante, en faisant bouillir les chaudières, en chauffant les fours, ou en faisant monter la vapeur beaucoup plus vîte, et produisant sur le combustible une économie de 10 à 15 pour cent.

Extrait du "Times," 22 Decembre, 1853.

PORTSMOUTH, 21 DÉCEMBRE.—On vient de faire la semaine dernière dans l'arsenal de la marine une expérience très-importante, dans le but de mettre à l'épreuve un nouveau mode d'empêcher la fumée; il a été inventé par M. PRIDEAUX, auteur d'un traité sur *l'Economie du Combustible*, lequel forme l'un des excellents ouvrages scientifiques publiés par M. Weale. Si nous n'avons pas parlé plus tôt de cette découverte, c'est que nous voulions nous assurer par nous-mêmes du résultat de l'expérience. Nous pouvons maintenant annoncer positivement au service de la marine que le grand problème de l'époque est résolu, et que "*l'inconvénient de la fumée*" va disparaître. L'invention est scientifique, parcequ'elle est évidemment le résultat d'une connaissance approfondie de la vraie théorie de la combustion. Elle est simple, pratique, et nous pouvons même ajouter qu'elle est élégante. Elle n'exige que peu de frais, car le plus grand des vaisseaux à vapeur de Sa Majesté peut, en 48 heures, recevoir un appareil de cette description. Elle n'oblige à faire aucun changement à la chaudière ou au fourneau. Chaque fourneau doit être pourvu d'une nouvelle porte de fourneau, à laquelle sera adaptée la nouvelle invention de M. PRIDEAUX. Elle se compose d'une soupape qui se ferme d'elle-même graduellement, d'un arrangement tout particulier, et d'un principe très simple qui assure une chaleur intense et une subdivision infinie de l'air qui la traverse. Cette invention nous paraît parfaite, et fait le plus grand honneur aux connaissances scientifiques de M. PRIDEAUX. Pour indiquer en quelque façon la perfection de l'arrangement au moyen duquel la chaleur radiée du fourneau est transférée à l'air qui y pénètre, nous avons placé le dos de la main sur le devant de la porte du fourneau, et nous observâmes que nous pûmes la tenir là pendant un temps indéterminé, tandis que le feu à l'intérieur était d'une intensité extrême; et nous ne pouvions nous empêcher d'observer la différence entre un tel résultat et celui que produisait un autre fourneau à la distance de quelques pieds, dont la porte était toute rouge. Nous vîmes que la cheminée vomissait des masses de fumée noire, ou une vapeur à peine plus colorée que la vapeur qui s'en échappait tout à côté, et cela à la volonté de l'inventeur, lorsqu'il mettait simplement un couvercle en fer au-dessus de son appareil, de manière à rendre à la porte du fourneau son ancienne forme.

Extrait de "Illustrated London News," 7 Avril, 1855.

La rapidité et la perfection avec lesquelles l'ouverture de la soupape dissipa la fumée dépassa nos plus vives espérances, et depuis ce moment jusqu'à présent, ce qui forme un intervalle de plus de dix mois, la manière dont cet appareil fonctionne a été également satisfaisante, et a produit tout ce que nous pouvions désirer. Il est comparativement facile de se débarrasser de la fumée, si l'on ne regarde pas à la consommation de combustible et à la production de la vapeur. Quelques perforations à la porte suffisent pour obtenir ce résultat; mais cette admission continuelle d'air au-dessus du combustible aura pour effet immédiat de diminuer l'alimentation de vapeur de 25 ou 30 pour cent, ainsi que plusieurs personnes en ont fait l'essai à leur détriment. Voici en quoi consiste la supériorité de l'invention de M. PRIDEAUX: elle admet une alimentation complète d'air immédiatement après qu'il se réfroidit, diminue cette alimentation à fur et à mesure qu'elle n'est plus nécessaire et que le combustible se tourne en coke, et enfin l'exclue entièrement lorsque cette opération étant devenue complète, on n'a plus besoin d'air; le fait est que la fumée est consumée par l'admission d'environ un cinquième de la quantité de l'air au-dessus du combustible qui entrerait sur le principe de l'alimentation continuelle. Un autre trait distinctif de cette invention, et qu'on ne doit pas oublier de mentionner, c'est la fraîcheur (nous pouvons employer le mot sans exagération) de la porte du fourneau. Durant l'action de la soupape la partie extérieure de la porte est réduite à la température du courant d'air qui est admis; et elle dépasse rarement cette proportion dans les intervalles où elle est fermée, à cause de l'effet extraordinaire produit par l'arrangement particulier des plaques à l'intérieur, présentant une surface de 8000 pouces carrés en arrêtant le passage de la chaleur. Une suite de nombreux témoignages fait admettre comme conclusion que l'économie du combustible n'est jamais moindre de 10 pour cent avec les chaudières de Cornouailles, et de 15 pour cent avec les fourneaux en brique, et dans cette assertion il est évident qu'indépendamment de la question de la fumée, l'adoption de l'invention devient une affaire d'économie. Cependant il faut le dire c'est surtout dans l'application de cette invention aux bâtiments à vapeur que les avantages qui en résultent sont plus complètement appréciés, et cela à cause de la position isolé du trou du chauffeur. C'est ce dont nous fûmes convaincus la première fois que nous plaçâmes la main sur la porte du fourneau après l'application de la soupape, et nous sommes heureux de voir que notre opinion s'accorde avec celle d'un homme dont le nom fait autorité, M. Fairbairn, qui, dans la dernière réunion à l'Institution des Ingénieurs dans les Arts Mécaniques, après avoir remarqué "que ce serait évidemment une adjonction de haute importance à toute espèce de chaudière, quelque bien construite qu'elle soit pour consumer la fumée, et rendrait le procédé plus complet et plus certain dans ses effets," fit observer, "que l'appareil paraissait spécialement fait pour les chaudières en usage dans la marine où la chaleur du trou du chauffeur était souvent nuisible, et empêchait souvent les hommes de remplir leurs fonctions, et il s'étonna de ce qu'il n'avait pas été adopté par les autorités navales pour ces raisons et à cause de sa faculté d'absorber la fumée. Ces soupapes qu'il avait vu fonctionner restaient certainement fraîches sans jamais se déranger, et la chaleur ne les avait point gâtées." M. PRIDEAUX nous apprend que cette invention est déjà introduite sur la Tyne, la Clyde et la Mersey; et sera adoptée l'été prochain dans la marine danoise. En un mot, l'invention de M. PRIDEAUX a toutes les chances de devenir un accessoire aussi indispensable au fourneau que l'est le régulateur pour la machine à vapeur.

Lettre adressée à la Compagnie pour empêcher l'Emission de la Fumée.

MESSIEURS, *Little Britain, 1er Mai*, 1855.

En réponse aux questions que vous m'avez adressées, j'ai le plaisir d'affirmer hautement que votre fourneau à soupape fonctionne d'une manière qui ne laisse rien à désirer. Non-seulement il débarrasse de la fumée, mais encore il réduit la consommation de combustible dans une proportion à laquelle je ne m'attendais pas, car au lieu d'user trois tonnes de charbon par semaine je n'en ai eu besoin que de deux. Un autre trait distinctif de votre invention, et qu'il faut proclamer, c'est que la température de la chambre du fourneau est sensiblement diminuée, et que depuis que je fais usage de votre appareil, cette température est descendue de 100° à 70°, à la grande satisfaction du chauffeur.

Je suis, Messieurs, votre très dévoué Serviteur,

A la Compagnie pour empêcher l'Emission de la Fumée. (Signé) JAMES VICKERS.

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RANELAGH ROAD, PIMLICO, LONDON.

Registered under the Act 7 & 8 Vic., cap. 110.

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And the Stearine Sperm or Wax

Are of the highest quality, purity, and hardness, and are suited for Drawing-rooms and Assemblies.

They are peculiarly fitted for Exportation to Tropical Climates.

THE CAMPHOR COMPOSITE CANDLES,

For ordinary use, recommended for their brilliant light and beautiful appearance.

THE CAMPHOR NIGHT LIGHTS,

Are particularly recommended for Nurseries and sick Chambers.

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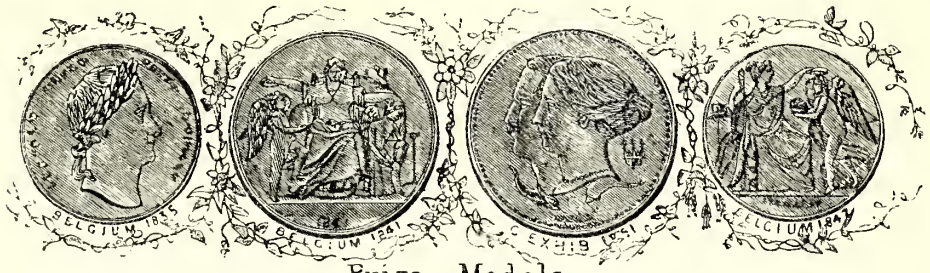

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,, Belgrave Wax.

,, Stearine Sperm.

,, Stearine Wax.

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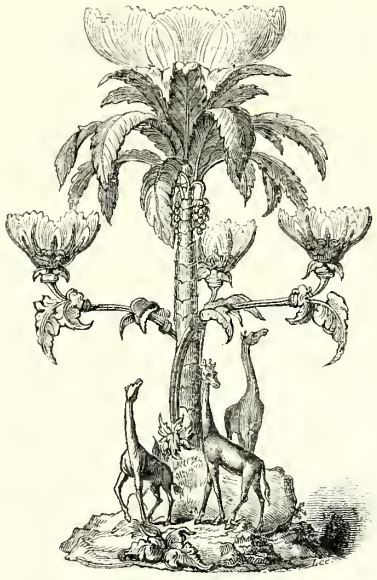

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BEST

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Rotation No. 255.

MODEL OF

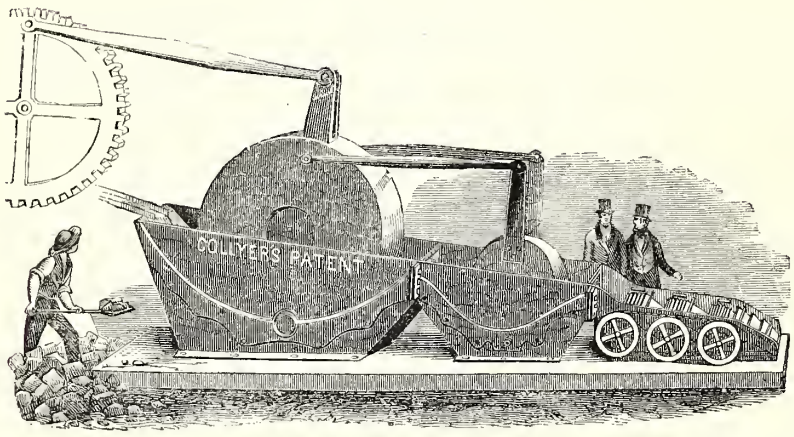
DR. COLLYER'S NEW PATENT

CALIFORNIA

QUARTZ CRUSHER, TRITURATOR,

AND

GOLD EXTRACTOR.



EXPLANATION.

THE power or driving-wheel of a 10-horse engine is attached to the arm of a large cylindrical roller, situated in the curved basin. When motion is given, a slow, undulating, vibratory, partially rolling and sliding action, is communicated to the cylinders; these operate as CRUSHERS, TRITURATORS, and PULVERIZERS, by their weight and rubbing, as well as crushing motion. The large cylinder is six feet in diameter, and its weight is between six and seven tons. The smaller cylinder is three-and-a-half feet in diameter, and its weight between two and three tons. The weight of either cylinder may be increased one-third by being filled with sand. They are so constructed that when one portion becomes worn by long use, a new surface may at once be presented by changing the fulcrum. All parts of the machine are of great strength and durability. The figure of a man feeding the machine with ore is seen in the above cut, and at the same place a constant stream of water is represented as flowing into the basin. After the ore has been reduced by the large cylinder, it passes with the water through a coarse screen to the smaller cylinder, or triturator, where it is thoroughly rubbed and scoured, and again passes a fine screen of 2,500 meshes to the square inch. The crushed ore next enters the Amalgamator Proper, where, by the repeated revolution of corrugated cylinders, it is so thoroughly incorporated with the mercury (heated by steam) that, on analysis of the TAILINGS, hardly a trace of gold can be discovered.—The machine works over 400 square feet of crushing and triturating surface per minute, being equivalent to the crushing action of 30 heads of stamps, each weighing 500 pounds.

ADVANTAGES.

After above six months' trial on large quantities of ore, at the manufactory of Messrs. Ransomes and Sims, Ipswich, the Patentee has the satisfaction of being able to confirm the estimate he had placed on the capacity and efficiency of the machine while in California in 1852.—The following ADVANTAGES may be relied on :—

1st. It reduces the hardest ores, from the size of two inches cube, to the finest powder, at the rate of 16 cwt. the hour, or nearly 20 tons a day, and saves the fine gold without the aid of any other apparatus.

2nd. In the act of trituration, it scours or rubs off the oxides, talcose iron, and micaceous slate which coat the particles of gold and prevent their being saved—these form at least 50 per cent. in all auriferous ores. Without this frictional action the minute portions of gold are sure to be lost.

3rd. It thoroughly incorporates all the pulverized ore with the mercury in such a manner as to avoid clogging.

4th. It preserves the mercury in bulk; that is, it does not divide it into minute globules. This is a most important fact, as such division is tedious and perplexing to the miner, and detrimental to the action of affinity which the mercury would otherwise have for the gold. Every machine which "flours" the mercury is comparatively worthless in practice, from the great loss which must follow of gold amalgam and mercury.

5th. The machine is easily cleaned out at any time, even without stopping the steam-engine, and its extreme simplicity and great strength are sufficient guarantees that it cannot get out of order.

6th. The machine is the invention of a practical miner, metallurgist, and chemist, who has had a long mining experience in South America, Mexico, and California, where he experimented for three years, and erected machinery on a large scale in 1852 in order to fully test its practical operation.

7th. The triturating and crushing power of the machine is the result of the slow, undulating, and vibratory sliding movement of the armed cylindrical rollers, which, while they execute a great amount of work with the expenditure of little power, do not destroy the tenacity of the iron composing the machine by sudden and violent concussions producing crystallization. Durability is of great moment in practice. No matter how expeditiously a machine may reduce the ore, if in a few weeks it is worn out and worthless: such a machine is not only expensive at any price, but involves a great loss of time and labour.

8th. The great desideratum in all mechanical contrivances is to get rid of the material when sufficiently acted upon, otherwise it interferes with rapid execution. This is particularly applicable to the crushing of ores. The machine is adapted to crush a large quantity of hard quartz in consequence of the main crusher reducing the ore instantly to a gravel, when it is passed through the coarse screen to the triturator, where it is brought to the finest consistence, and cannot escape until sufficiently minute to pass the fine screen. The coarse gold is not unnecessarily pulverized, but is caught in the mercury chamber.

9th. The convenience and novelty of the amalgamating arrangement, which has been proved in practice to save at least 30 per cent. more gold than any other process, in consequence of its combining the chemico-mechanical conditions hitherto neglected.

10th. The machine has been constructed with the view of its being transported to the mining regions of Australia and California. No part exceeds one ton in weight. It can be made much lighter if required.

11th. The more solid, substantial, and immoveable the foundation of the crushing and grinding surface, the easier will the ore be reduced. No matter how perfect the appliances may be otherwise, the capacity of the machine is augmented in proportion to the solidity and firmness of the parts on which it rests.

12th. The great facility with which the parts when worn can be renewed, at little expense; it is calculated that the wear-and-tear does not exceed 6*d*. per ton of ore operated on. The shoes are of so simple a character that they can be made at any iron-foundry.

Price, from £600 *to* £300, *according to size and capacity, &c.*

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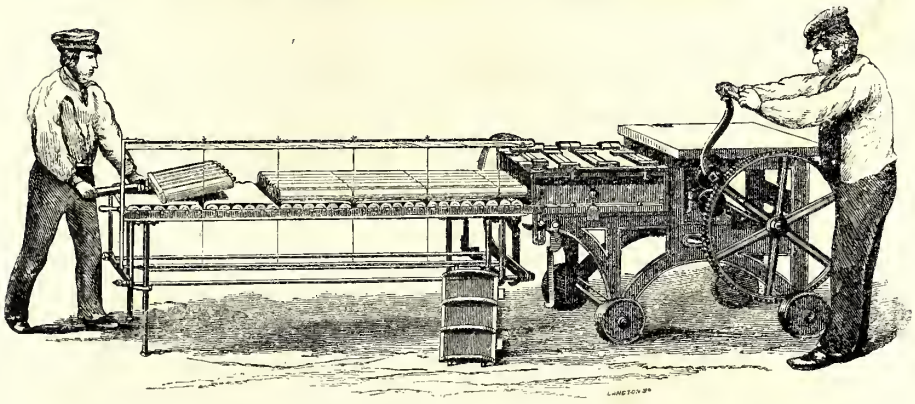
MACHINE N° 1 (A une Boîte).

Pour fabriquer les Tuyaux de Drainage, etc.



Prix de la Machine n° 1, avec un Tablier, mais exclusif de crible et de filières. } **525** francs.

Cette Machine a remporté les prix suivants :

Au concours de la Société Royale d'Agriculture d'Angleterre 1848, 500 francs.
— — — 1849, 500 francs.
— — — 1850, Mention Honor.
A l'Exposition Universelle de Londres, 1851, Médaille.
Au concours de la Société Royale d'Agriculture d'Angleterre 1853, 500 francs.
— — — 1854, Mention Honor.

Cette Machine est toute en fer. Elle consiste en un bâtis en fonte avec une boîte dans laquelle se trouve un piston muni de deux tiges qui s'engrènent avec deux pignons. Le couvercle de la boîte est en fer forgé, très fort. Pour lever et pour abaisser le couvercle, il y a un manche, qui sert aussi à fermer et à consolider la boîte, par le moyen de trois grosses griffes qui s'accrochent au bord supérieur : sur la face de la boîte qui est ouverte, il y a en bas une rainure, et en haut un loquet. Le Tablier est une espèce de table en fer forgé, dont la planche consiste en plusieurs rouleaux couverts de bandes de drap imperméable à l'eau. Le châssis du Tablier est muni de quelques fils d'acier, qui travaillent à travers le Tablier, entre les interstices des bandes de drap.

Pour faire manœuvrer la machine, il faut mettre d'abord à la face ou-

verte de la boîte une Filière (*anglice die*) quelconque propre à la fabrication des produits qui sont exigés, soit des pipes, soit des briques, etc. La Filière se place dans la rainure du bas, et se ferme en haut avec le loquet.

Le Tablier est maintenant mis en train, comme il est figuré dans le dessin. On commence alors par emplir la boîte de terre glaise, et après avoir fermé le couvercle avec les griffes, on tourne la manivelle pour faire marcher le piston qui pousse en avant la terre glaise, de telle sorte qu'elle passe à travers la filière en prenant la forme du modèle. Les tuyaux (ou les produits de la fabrication quels qu'ils soient) s'allongent jusqu'à ce qu'ils arrivent au bout du Tablier. On arrête la machine pour un instant pendant que le garçon fait couper les tuyaux à l'aide du châssis, ce qui se fait en un clin d'œil, et alors les tuyaux sont emportés, comme la chose est expliquée dans le dessin. Il ne reste maintenant qu'à continuer le travail, et à remplir la boîte comme nous l'avons indiqué, toutes les fois qu'elle est vidée.

Cette machine est très forte, et très solidement construite. Il ne faut pour la faire fonctionner, qu'un homme qui remplit la boîte et fait tourner la manivelle, et un garçon qui coupe et emporte les tuyaux. On peut faire avec cette machine des tuyaux qui ont jusqu'à 18 centimètres de diamètre, et même jusqu'à 38 centimètres; mais pour faire les grands tuyaux, il faut un appareil spécial dont nous allons parler plus loin. A l'épreuve qu'ordonnèrent les juges de la Société Royale d'Agriculture d'Angleterre au concours d'Exeter en 1850, cette machine a fait en dix minutes 520 tuyaux de 6 centimètres de diamètre et de 37 centimètres de long; mais aujourd'hui on pourrait dépasser de beaucoup cette vitesse de fabrication.

La machine est locomobile.

MACHINE N° 2 (A deux Boîtes).

Pour fabriquer les Tuyaux de Drainage, etc.

Cette machine est exactement de la même grandeur et de la même construction que la précédente (numéro 1), excepté qu'elle a deux boîtes tandis que le numéro 1 n'en a qu'une.

On peut faire avec le numéro 2 des tuyaux à deux bouts, ou on peut cribler (procédé dont nous allons parler) à l'un des bouts, et fabriquer les tuyaux à l'autre; ou autrement cribler aux deux bouts à la fois. Les pistons des deux boîtes ont un mouvement de va et vient alternati-

vement, de manière qu'une boîte se vide pendant que l'autre se remplit. C'est ainsi que la fabrication de cette machine est encore plus rapide que celle de la machine à une boîte.

Pour faire manœuvrer cette machine, il faut deux hommes et deux garçons.

A l'examen de la Société Royale d'Agriculture, à Exeter, en 1850, cette machine a fait en dix minutes 724 tuyaux de 6 centim. de diamètre.

Prix de la Machine n° 2, à deux boîtes, exclusif de crible et de filières.	**700** francs.

MACHINE N° 2 (A deux Boîtes).

Fonctionnant à la Vapeur.

Cette machine a un appareil pour la faire fonctionner au moyen de la vapeur, du vent ou des animaux, au lieu d'employer la force de l'homme.

La manivelle est déplacée, et à sa place se trouvent trois poulies : celle du milieu est une poulie folle et les deux autres sont fixes. La courroie qui commande aux poulies passe entre le fourchon d'une tige conductrice qui communique au rouage intérieur. La courroie fait tourner les poulies toujours dans le même sens ; mais les engrenages sont arrangés de façon que l'une des poulies fixes fait mouvoir les pistons de gauche à droite et l'autre de droite à gauche. Quand la courroie passe autour de la poulie folle, la machine s'arrête. Maintenant la courroie commande à la poulie de ce côté et les pistons marchent de droite à gauche. Lorsque les pistons sont arrivés à bout, la machine s'arrête d'elle-même au moyen d'un mécanisme intérieur qui fait passer la tige conductrice à fourchon, de la poulie fixe sur la poulie folle. Alors, la deuxième boîte étant remplie, l'ouvrier fait passer la tige conductrice de la courroie sur la poulie fixe opposée, ce qui fait mouvoir les pistons de gauche à droite.

On conçoit bien que l'appareil est tout simple, et qu'il est impossible que l'ouvrier, même le plus maladroit, puisse le déranger.

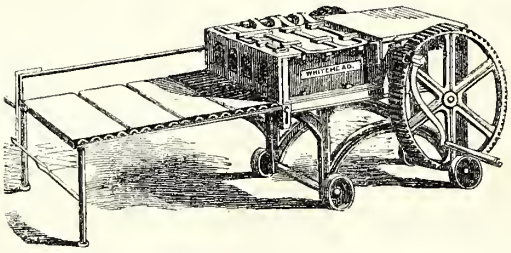
L'application de la vapeur doit naturellement augmenter de beaucoup la fabrication. La confection des tuyaux de 6 centimètres monte à vingt mille par jour.

Cet appareil s'adapte également aux numéros 1 et 2.

Prix de l'Appareil pour transmettre la force et la vapeur à la machine à fabriquer les tuyaux.	**135** francs.

MACHINE N° 0 (A une Boîte).

Pour fabriquer les Tuyaux de Drainage.



Cette machine est construite d'après celle numéro **1**; mais elle est plus petite : on s'en sert de la même façon. Elle suffira à la fabrication des tuyaux, jusqu'à 12 centimètres de diamètre, ou même jusqu'à 23 centimètres avec l'appareil spécial pour élargir la boîte.

Prix avec un Tablier, mais sans crible et sans filière.	**370** francs.

FILIÈRES OU MODÈLES

Pour les Machines à fabriquer les Tuyaux de Drainage.

On pourrait remettre aux acheteurs des échantillons des Filières, etc., qui représentent les articles en coupe. Il faut ici surtout annoncer qu'on peut faire des filières de toutes sortes, par exemple, pour la fabrication des faîtières, des briques, des tuiles, des moulures de toute forme. Les prix en sont de 12 francs et au-dessus.

BOUCHE EXPANSIVE.

Comme nous l'avons dit, les boîtes des machines numéros 1 et 2, sont d'une capacité telle qu'elles peuvent faire les tuyaux jusqu'à 18 centimètres de diamètre intérieur ; mais s'il en faut faire des plus grands, on se sert d'une bouche expansive pour élargir l'orifice où s'attache la filière; on peut alors en faire jusqu'à 38 centimètres.

Prix de la Bouche expansive pour les numéros 1 et 2,	**28** francs.
— — pour le numéro 0,	**22** francs.

TABLIER

Pour les Tuyaux de grand Diamètre.

Pour les tuyaux de grand diamètre, il vaut mieux un Tablier spécial, parce que le châssis de l'autre Tablier n'est pas assez haut, et de plus, les grands tuyaux sont généralement deux fois plus longs que ne le sont les petits tuyaux.

Prix du Tablier pour les Tuyaux de grand diamètre,	**40** francs.
— pour les Briques,	**40** francs

AVIS SUR LES FILIÈRES.

Toutes les dimensions des filières énoncées dans ce catalogue, sont celles des produits fabriqués avant la cuisson; les personnes qui en commanderont doivent bien remarquer et comprendre que, dans l'opération de la cuisson, nous comptons un rétrécissement d'un sur huit.

LES PORTE-TUYAUX.

Ces outils sont destinés à emporter les tuyaux, etc. Ils sont en tous points conformes aux tuyaux. (Voir le premier dessin où le garçon est représenté avec un porte-tuyaux à la main.

Prix des Porte-Tuyaux, de **4** fr. **50** à **12** fr. **50**.

LE CRIBLE.

Le plus souvent il se trouve dans la terre glaise des pierres, des racines, ou d'autres matières obstructives qui pourraient empêcher la fabrication des tuyaux.

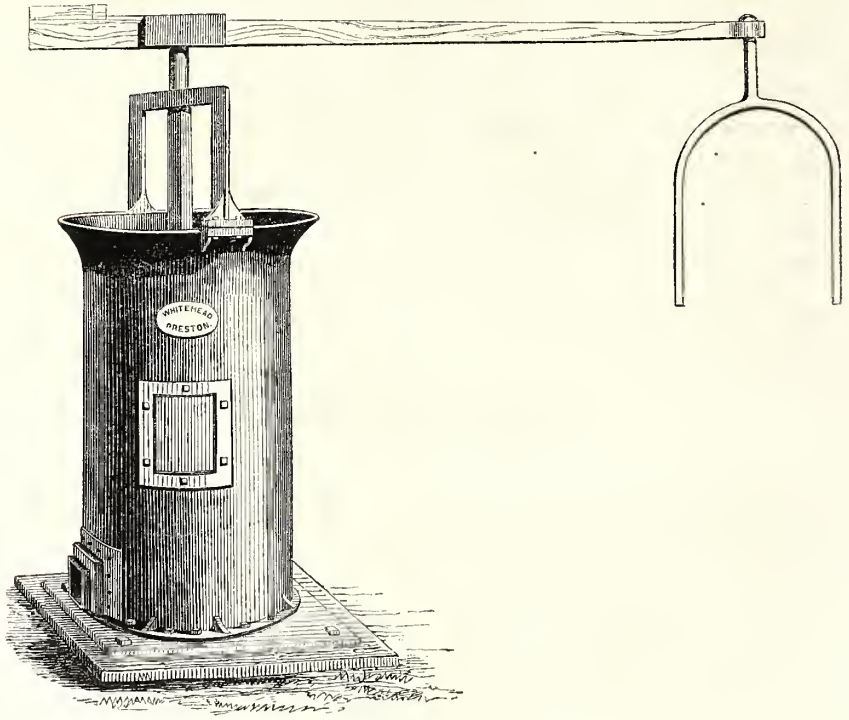
Pour extraire ces matières, il faut *cribler* la glaise. (Voir le premier dessin, — la machine n° 1 — où le crible est figuré sur le devant).

Le Tablier est délié et mis à côté. Les deux bras de fer qui pendent au bas de la boîte de la machine en face, sont fixés en ligne horizontale avec deux écrous. La filière étant déplacée, on met dans l'endroit qu'elle vient de quitter, le crible, qui est une forte grille en fer forgé. Le crible se ferme avec le loquet, de même que la filière. On met la glaise que l'on veut cribler dans la boîte, on ferme le couvercle, et l'ouvrier fait

mouvoir le piston en tournant la manivelle. Il en résulte que la glaise est poussée à travers le crible et que les corps étrangers restent au dedans. Alors l'ouvrier retire le loquet, le crible tombe sur les bras horizontaux, et on retire les pierres.

Prix du Crible pour les machines numéros 1 et 2	**32** francs.
— la machine numéro 0.	**29** francs.

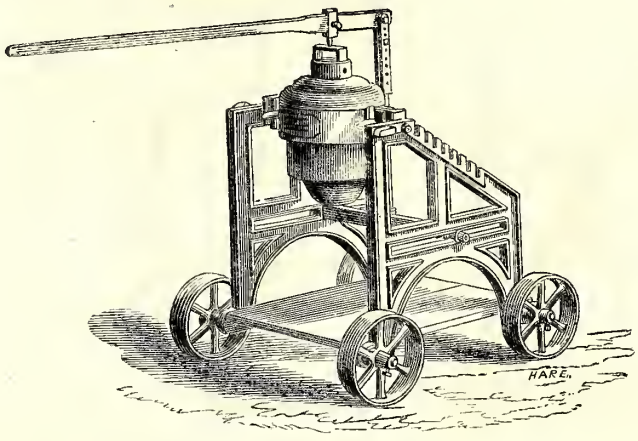
TONNEAU BROYEUR.



Quand la terre glaise est enlevée du sol, il arrive généralement que les couches sont de différentes qualités. Dans ce cas, il faut la pétrir. Le tonneau broyeur est un cylindre en fonte avec deux orifices latéraux au bas. Il y a dans le cylindre un arbre vertical muni de lames et de couteaux qui fonctionne comme une vis d'Archimède. On remplit de glaise le cylindre par le haut ; cette glaise circule graduellement jusqu'à ce qu'elle arrive au fond ; elle est alors rejetée à travers les deux orifices. Presque toute la terre glaise exige une semblable opération avant de servir aux machines de drainage.

Prix du grand Tonneau Broyeur figuré ci-dessus	**850** francs.
Prix d'un plus petit	**250** francs.

MACHINE SERVANT A METTRE LES COLLIERS AUX TUYAUX.



Cette Machine sert à mettre les colliers aux tuyaux destinés aux conduits.

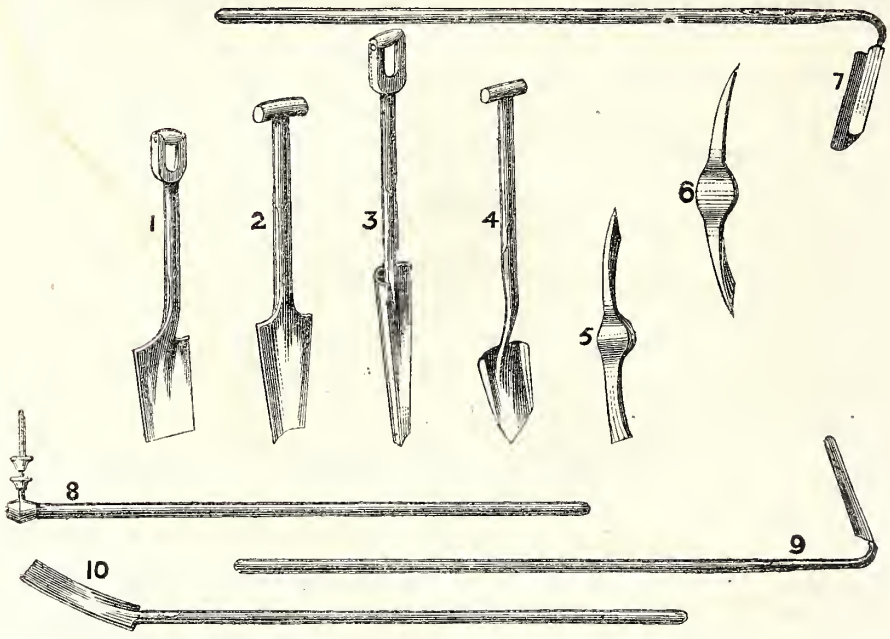
Pour les renseignements, s'adresser chez M. Whitehead.

Prix de la Machine à mettre les colliers aux Tuyaux avec moule **185** francs.

PLANCHE A COUPER LES COLLIERS.

Dans le drainage ordinaire, les jonctions des tuyaux sont nues ; mais quelquefois il est préférable de les couvrir. Pour cela on fait usage de tuyaux courts, dits *colliers*. Pour les fabriquer, on se sert d'une planche de bois avec plusieurs lames de fer, disposées le long de la planche en lignes parallèles. On prend un tuyau d'un diamètre assez large pour recevoir les tuyaux dont il est destiné à couvrir les jonctions. Ce grand tuyau est porté sur un rouleau : on le fait rouler le long de la planche sur les lames de fer qui le coupent en plusieurs parties, en traversant seulement la moitié de l'épaisseur. Lorsque le tuyau est cuit, les parties coupées à moitié se séparent facilement. Ces derniers sont les tuyaux courts dits colliers.

OUTILS A MAIN POUR LE DRAINAGE.



Ces Outils sont solides, bien faits, et les bords sont en acier.

PRIX DES OUTILS A MAIN.

N° 1.	Bèche à creuser les tranchées	5 francs.
2.	— —	6 —
3.	— —	8 —
4.	—	5 —
5.	Pic	5 —
6.	Pic	5 —
7.	Pelle	7 —
8.	Outil pour poser les tuyaux dans les tranchées . . .	4 —
9.	Curette	6 —

BRISEURS.

Pour les grandes fabriques on se sert souvent en Angleterre de lourds rouleaux de fer pour briser les pierres, etc., au lieu de cribler.

Prix : **550** francs.

MANÉGES.

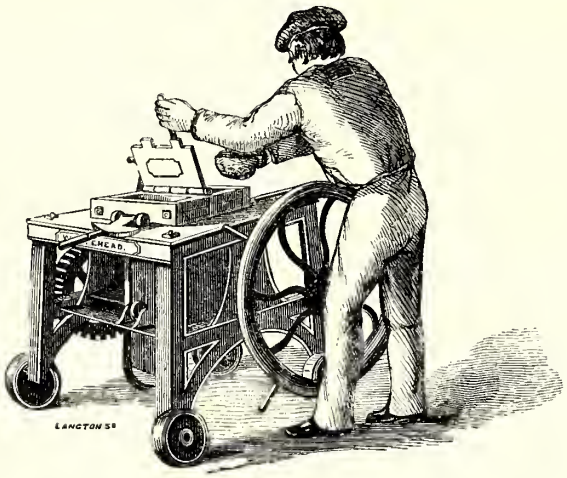
La force de la vapeur est sans doute la meilleure dont on peut se servir pour les machines à fabriquer les tuyaux et toutes autres machines ; mais dans le cas où l'on voudrait employer la force des animaux, on trouvera un manége fait exprès pour cet usage.

Prix : **350** francs.

APPENTIS A DESSÉCHER, FOURS, ETC.

Tous les renseignements sur les Fours, les Appentis à dessécher, etc., sont donnés aux acheteurs des machines à fabriquer les tuyaux de drainage, etc.

MACHINE A PRESSER LES BRIQUES.



Cette machine est très utile pour presser les briques ordinaires, moulées à main. Elle fait une brique parfaitement unie, très solide et d'une forme régulière. Un homme et deux garçons qui travaillent à cette machine peuvent faire de cinq à sept mille par jour.

Prix de la Machine à estamper les briques	**420** francs.
Porte-Briques à ressort, la paire	**19** francs.

Paris. Imp. de Mme de Lacombe, r. d'Enghien, 14 — 25 Juin 1855.
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Paris Universal Exhibition.

DESCRIPTIVE AND ILLUSTRATED PRICE LIST

OF

AGRICULTURAL IMPLEMENTS,

MANUFACTURED BY

JAMES AND FRED^{K} HOWARD,

(SONS AND SUCCESSORS OF JOHN HOWARD,)

BRITANNIA IRON WORKS, BEDFORD,

ENGLAND.

Patronized by

H.R.H. Prince Albert.

THE PRICES STATED IN MESSRS. HOWARDS' LIST INCLUDE DELIVERY AT ANY OF THE LONDON DOCKS.

1855.

Exposition Universelle de Paris.

LISTE DESCRIPTIVE, EMBELLIE DE GRAVURES, DES PRIX

DE

MATERIEL AGRICOLE,

DE LA FABRIQUE DE

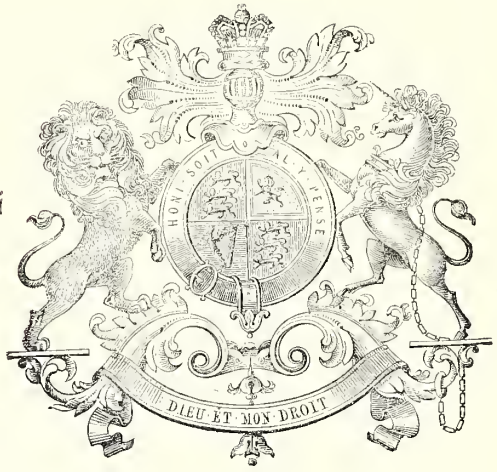
JAMES AND FRED^K. HOWARD,

(FILS ET SUCCESSEURS DE JOHN HOWARD,)

BRITANNIA IRON WORKS, BEDFORD,

ANGLETERRE.

Sous les Auspices de



S.A.R. Le Prince Albert.

LES PRIX DES OBJETS DE LA FABRIQUE DE MM. HOWARD DANS LA LISTE SUIVANTE, COMPRENNENT LES FRAIS DU PORT à TOUS LES DOCKS DU COMMERCE DE LONDRES.

1855.

Howards' Price List of Agricultural Implements.

LIST OF PRIZES AWARDED TO MESSRS. HOWARD BY THE ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

Ten First Prizes for the Best Plough.
Two First Prizes for the Best Subsoil Plough.
Six First Prizes for the Best Iron Harrows.
Two First Prizes for the Best Horse Hoe.
Two First Prizes for the Best Horse Rake.

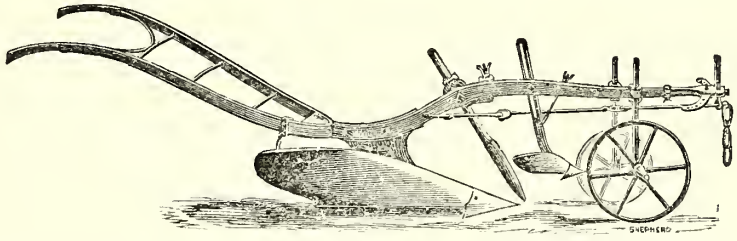
LISTE DES PRIX ADJUGES à MM. HOWARD PAR LA SOCIETE ROYALE AGRICOLE D'ANGLETERRE.

Dix Premiers Prix pour la Meilleure Charrue.
Deux Premiers Prix pour la Meilleure Charrue à Sous-Sol.
Six Premiers Prix pour les Meilleures Herses de Fer.
Deux Premiers Prix pour la Meilleure Houe-à-Cheval.
Deux Premiers Prix pour le Meilleur Râteau-à-Cheval.

HOWARDS' PATENT PRIZE PLOUGH,

Marked P.

Marquée P.



J. & F. Howard beg to direct attention to their well known Iron Ploughs, which have received the following TEN FIRST PRIZES from the Royal Agricultural Society of England:—

The first prize of £5, at the Liverpool Meeting. The first prize of £5, at the Bristol Meeting. The first prize of £10, at the Shrewsbury Meeting. At Newcastle-upon-Tyne, the first prize of £10, for the best plough for light land, and the first prize of £10, for the best plough for heavy land, were both awarded to Messrs. Howard. Also at Northampton, York, Norwich, Exeter, and **Lincoln**, 1854, the first prize was (for the **tenth** time) awarded to Messrs. Howard, for the best plough.

At the Great Exhibition of All Nations, Messrs. Howard gained the "Prize Medal" for their Patent Two-Horse Plough, and also the "Prize Medal" for their Patent Four-horse Plough.

For elegance and simplicity of design, as well as lightness of draught, the Ploughs here shown, marked P and P P, are superior to any of Messrs. Howards' former patterns, and J. & F. H. feel convinced that they are the most complete and altogether the best Ploughs for general purposes yet produced.

For many years Messrs. Howard have made the subject of improvements in Ploughs their principal study, and they have invariably kept in view the following objects:—

1. To make a Plough that will cut and turn the work in the best manner, and suitable to the greatest variety of soil.
2. To obtain a form, the lightest in draught, and that will work the cleanest on sticky soils.
3. To render every part strong and durable, without unnecessary weight.
4. To make every part free from complication, and to fit

J. & F. Howard invitent l'attention publique à leurs Charrues de fer déjà si bien connues, pour lesquelles ils ont reçu les DIX PREMIERS PRIX de la Société Royale Agricole d'Angleterre:—

Le premier prix 125f. à l'Exposition Agricole de Liverpool. Le premier prix 125f. à l'Exposition Agricole de Bristol. Le premier prix 250f à l'Exposition Agricole de Shrewsbury. Le premier prix 250f. à Newcastle-upon-Tyne pour la charrue la plus convenable aux terres sablonneuses, et le premier prix 250f. pour la meilleure charrue pour les terres argileuses, furent tous les deux accordés à MM. Howard. Et à Northampton, à York, à Norwich, à Exeter, et à **Lincoln**, en 1851, ils ont remporté le premier prix, pour la dixième fois.

A la Grande Exposition de toutes les Nations, MM. Howard ont gagné le Prix (Prize Medal) pour leur Charrue pour deux chevaux, aussi bien que le Prix (Prize Medal) pour leur Charrue pour quatre chevaux.

Les Charrues qui sont ici gravées, marquées P et P P, surpassent toutes les autres modèles de la fabrique de MM. Howard pour la beauté du dessin et la légéreté du trait, et sont les meilleures Charrues pour l'usage ordinaire qui ont été encore produit.

Pendant plusieurs années que MM. Howard ont étudié le perfectionnement des Charrues, ils ont toujours eu égard aux principes suivans:—

1. A fabriquer une Charrue avec laquelle on pourrait le mieux fendre et tourner le sol, et qui serait en même temps convenable à la plus grande variété de terres.
2. A construire un outil d'une grande légéreté de trait, et d'une forme à se tenir propre en sillonnant les terres argileuses
3. A en rendre toutes les parties les plus fortes possible, sans le charger d'un poids inutile.
4. A faire un instrument fort simple, afin qu'un laboureur

those parts subject to wear or breakage in the most simple manner, so that an ordinary ploughman shall have no difficulty in replacing them when in the field.

5. To make *the* Plough that can be kept in order at the least expense, to which end J. & F. H. have paid great attention to the quality of their shares and other wearing parts.

In Messrs. Howards' Ploughs it will be seen that the breasts or furrow turners, being made peculiarly taper and regular in their curve, and formed upon exact geometrical principles, the furrow slice is made to travel at an uniform rate from its being first cut until left in its final position, the power required to work the implement is considerably lessened, and the furrows are laid more evenly and in the best form for the reception of the seed, while the Plough works much cleaner on land inclined to adhere to the breast or furrow turner.

The shares are fixed to lever necks of wrought iron (made upon an improved principle), the raising or lowering of which gives the point greater or less "*pitch*" or inclination as the share wears, or as the state of the land may require: the superiority of this lever neck over others consists in its being tightened at the end, instead of by a bolt through the side; when raised or lowered (which can be done instantly), it is secured in a series of grooves, the iron is thus brought into a state of tension, insuring firmness as well as increasing the strength; the centre, upon which the lever works, is a fixture to the neck, and takes its bearing close to the head or socket of the share, so that the top of the share is not raised above or below the front of the breast when moved into the higher or lower grooves This lever neck has another great advantage over any other; the accumulation of earth inside the Plough in most instances renders the lever useless, as it cannot be moved without a great deal of trouble, but in this arrangement, by simply taking off the end nut, it may be at once disconnected from the Plough, and anything preventing its free action removed.

The skim coulter here shewn is a most useful appendage to any Plough, and is coming into very general use. It is of great importance when ploughing ley ground and stubbles: it precedes the common coulter, paring and turning into the furrow the herbage upon the surface, so that when the soil is turned over by the Plough, nothing of grass or weeds is left to grow out between the furrow, consequently the vegetable matter thus buried, instead of living upon the soil, decomposes, and serves to enrich the land. It will also be found most useful when ploughing in dung, mustard, tares, &c., for with the addition of a "drag chain" all may be turned in completely.

Messrs. H. consider the method of applying a draught chain far superior to any other, as it removes all strain from the beam, and gives the Plough in hard work a steadiness of movement not to be found in those which draw from the end of the beam; the line of draught also is much more direct, consequently the power required must be less; the hinder part of the draught chain may be removed, and attached to a hole in the centre of the beam, when ploughing stubbles, &c., where it drives up the coulter. The handles and beam are of wrought iron, and are made throughout in a piece, which prevents them shaking loose, as is the case with most other Ploughs made of iron; this latter improvement also prevents the accumulation of soil in the hinder part of the Plough. Every part is so arranged that a ploughman can remove or replace the irons subject to wear or breakage in the field, without the assistance af a mechanic.

	£	s.	d.
Price, fitted with two wheels	4	5	0
Ditto, fitted with one wheel to run on the land	3	15	0
Ditto, without wheels	3	9	0
If with skim coulter ..... *extra*	0	5	0
If with drag chain ..... *extra*	0	2	0
If with steel breast ..... *extra*	0	9	0

puisse remplacer facilement, et dans le champs même, les parties qui deviendraient cas ées, ou usées.

5 A fabriquer enfin *la* Charrue qu'on puisse garder comme-il faut, à la moindre depense possible, et, pour arriver à ce but. J. & F. H. ont fait grande attention aux socs et aux autres parties qui sont exposées à devenir usées.

Les tourne-sillons des Charrues de MM. Howard étant faits d'une courbe fort réguliere et atténuante, causent tourner la tranche du sillon à la même velocité, dès le moment que le sol est percé jusqu'à la fin de l'operation, quand elle occupe sa position finale, que peu d'effort est neccessaire pour trainer l'instrument, et, que les sillons sont posés plus également et dans la meilleure position pour reçevoir la semence, pendant que la charrue se tient plus propre en sillonnant les terres argileuses.

Les socs sont attachés à un cou-levier à l'aide duquel on peut en régler la portée *(pitch)* à proportion qu'ils deviennent usés, ou, que la condition de la terre le demande. Ce cou-levier est serré *au bout*, ce qui lui donne une immense superiorité sur les leviers des autres fabricants, qui sont tous attachés au *côté* de la charrue; quand on souléve ou descende ce cou-levier, il est fixé dans un rang de rainures, et le fer étant reduit à un état de tension, devient très ferme et très fort. Le fulcrum du levier se trouvant attaché au cou très proche de la bobêche du soc, fait qu'en remuant le cou-levier dans les rainures, le haut du soc n'est jamais soulevé au dessus, ni descendu au dessous, de la pointe du tourne-sillon. Ce cou levier possède encore un autre avantage, l'amas du sol qui se trouve au dedans de la charrue, rend presqu'inutile les leviers qui sont attachés au *côté* de la charrue, à cause de la difficulté de les remuer, mais celui-ci est tellement arrangé, qu'en otant un écrou seulement au bout du levier, on peut le degager dans un moment pour le nettoyer.

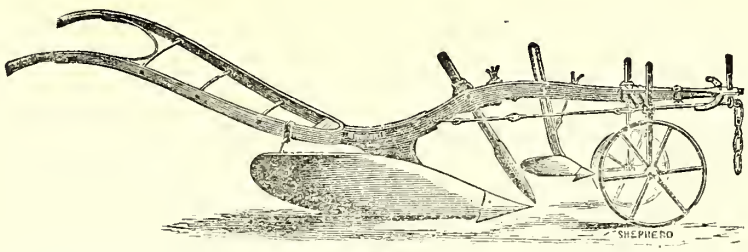
Le coutre à rogner (skim coulter) ici dessiné, un apanage fort utile à une charrue, est beaucoup employé aujourd'hui. Il est d'une grande importance en sillonnant les pâtures et les chaumes, devançant un peu le coutre ordinaire, il rogne et couvre dans le sillon la herbe d'une telle maniére, que quand la charrue tourne le sol, elle ne peut pas pousser entre les sillons, et par conséquent la matiére végétale étant enterrée, décompose, et graissit la terre au lieu d'en être nourrie. On le trouvera aussi fort utile en sillonnant la terre pour couvrir le fumier, les tares, &c., et en y ajoutant une enrayure, on y réussit parfaitement.

MM. H. se flattent que la manière qu'ils ont découverte d'attacher la "chaine de trait" surpasse toutes les autres en usage, puisqu'elle remue tout le poids du timon de la charrue, et lui donne une fermeté de mouvement qu'on ne trouve pas dans celles qui sont trainées du bout du timon. La ligne de trait est beaucoup plus droite, et par conséquent elle ne requiert pas autant de force pour la tirer. Quand en sillonnant les chaumes elles montent le coutre, on peut ajuster la partie de derriére de la chaine de trait, à un trou pratiqué dans le centre du timon. Les mancherons et le timon sont fabriqués en fer forgé d'une seule piéce, ce qui les empêche de branler comme le font presque toutes les charrues de fer. Cette dernière amélioration laissant libre la partie de derriere de la charrue, empêche l'amas du sol là-dedans. Toutes les parties sont tellement arrangées qu'un laboureur peut remuer ou remplacer les fers cassées ou usées sans l'aide d'un ouvrier.

	f.	*c.*
Prix d'une charrue à deux roues	102	0
Dito, à une roue seulement	90	0
Dito, sans roues	82	75
Avec un coutre à rogner attaché ..... *extra*	6	0
Avec une enrayure attachée ..... *extra*	2	50
Avec un tourne-sillon d'acier attaché ..... *extra*	10	75

HOWARDS' PATENT PRIZE PLOUGH.

Marked P P. Marquée P P.



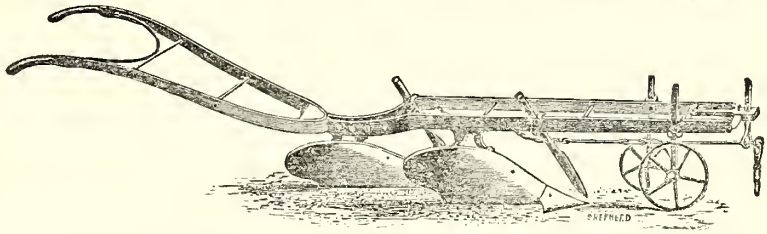
This Plough is the same as the last, but of somewhat larger dimensions, and adapted for stronger land and deeper cultivation. It is highly recommended for general purposes.

	£	s.	d.
Price, fitted with two wheels	4	10	0
Ditto, fitted with one wheel to run on the land	4	0	0
Ditto, without wheels	3	14	0
If with skim coulter ..... *extra*	0	5	0
If with drag chain ..... *extra*	0	2	0
If with steel breast ..... *extra*	0	9	0

Cette Charrue est la même que la dernière, mais un peu plus grande, et proportionnée à une culture plus profonde, et aux terres argileuses. On la recommande pour l'usage ordinaire.

	f.	*c.*
Prix, ajustée avec deux roues	168	0
Dito, ajustée avec une roue seulement	93	0
Dito, sans roues	78	75
Avec un coutre à rogner attaché ..... *extra*	6	0
Avec une enrayure attachée ..... *extra*	2	50
Avec un tourne-sillon d'acier attaché ..... *extra*	10	75

HOWARDS' PATENT DOUBLE-FURROW PLOUGH.



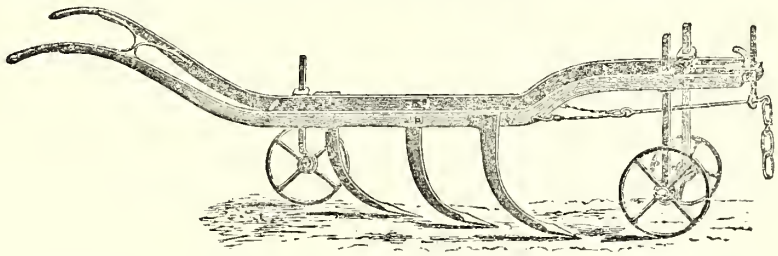
This Implement is made either with wrought iron or wood beams and handles, and is like two ploughs made into one, for the purpose of ploughing two furrows at a time; it is used upon light land with three horses abreast, and one man to hold the Implement, who guides the horses with reins; most of the improvements made in Messrs. Howards' single Ploughs are adopted in this Implement.

	£	s.	d.
Price, with steel breasts	7	7	0

Les mancherons et les timons de cet Instrument sont fabriqués en fer forgé ou en bois, et il ressemble à deux charrues unies, pour labourer deux sillons à la fois; on s'en sert sur les terres sablonneuses avec trois chevaux côte à côté, et un homme qui manie l'instrument, et mène les chevaux avec des rênes; presque toutes les améliorations qu'ont faites MM. Howard dans la fabrique des charrues, sont comprises dans cet Instrument.

	f.	*c.*
Prix, avec des tourne-sillons d'acier	182	50

HOWARDS' PATENT SUBSOIL PLOUGH, OR SUBSOIL PULVERIZER.



The Royal Agricultural Society of England have awarded a First Prize to this Implement.

The Patent Subsoil Pulverizer is a most simple and

La Société Royale Agricole d'Angleterre a adjugée un Premier Prix à cette Instrument.

Il est fort efficace pour déchirer le sol au dessous du

effective implement for breaking up the close earth below the furrow, which has been rendered almost impervious to water by the trampling of the horses when at plough.

The improvements in this Implement consist in the application of two beams, whereby greater strength is obtained and the facilities for fixing the coulters and wheels increased, as well as greater steadiness at work insured; the coulters, as will be seen in the engraving, are curved and placed so that they precede each other, thereby reducing the power required to work the implement, more effectually pulverizing the soil, and causing it to enter hard ground more freely; two of the wheels are placed so as to run upon the land, instead of all working in the furrow, by this means the wheels take a wider bearing, the implement works more steadily, and an uniform depth is insured; it is also turned more easily at land's end.

This implement is found most valuable in hoeing or ploughing between the rows of roots and other crops, as it will stir the soil to a greater depth than a horse hoe, which is often desirable after heavy rains. It will also be found useful in draining operations upon friable soil; after a furrow has been taken out by a common plough, this will so pulverize the subsoil, that it may be removed with a shovel.

On some soil it is not necessary to use all the coulters; in many cases two, and in some, one will be found sufficient.

	£	s.	d.
Price	6	10	0

sillon, devenu déjà dur, et presqu' impénétrable à l'eau par les traces des chevaux.

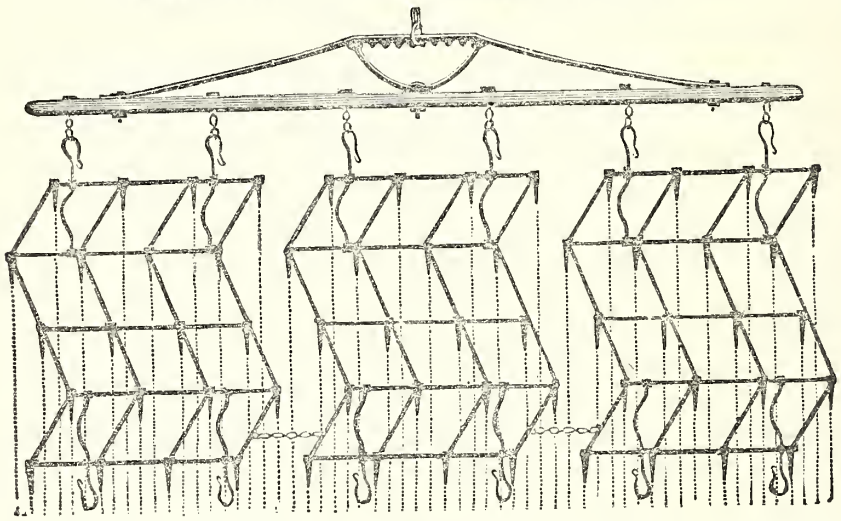
L'amélioration de cet outil consiste en y appliquant deux timons, augmentant aussi sa durée, facilitant les moyens d'y attacher les roues et les coutres, et lui donnant plus de stabilité en labourant; les coutres sont courbés, et placés, de sorte qu'ils se devancent les uns les autres, réduisant ainsi la force necessaire à trainer l'instrument, et le laissant percer plus facilement le sol; deux des roues marchant sur le terrain pendant qu'il n'y a qu'une dans le sillon, les roues ont plus d'appui, et l'instrument va plus ferme, sillonnant à une profondeur uniforme, et tournant plus facilement aux bouts des sillons.

Cet instrument est fort utile pour houer entre les rangs des navets ou des autres produits croîssants, puisqu'il remue le sol à une plus grande profondeur qu'une houe-à-cheval, ce qui est souvent à désirer après de grandes pluies. On le trouve encore fort convenable pour assécher les terres friables, lors qu'on a fait un sillon avec la charrue ordinaire, le sol est tellement pulverisé par cet outil qu'on le remeut facilement avec une pelle.

Il y a des terres, ou il n'est pas nécessaire à appliquer tous les coutres, souvent deux, et en quelques cas un seul suffira.

	f.	*c.*
Prix	156	0

HOWARDS' PRIZE IRON HARROWS.



The following Six First Prizes for Harrows have been awarded to Messrs. Howard by the Royal Agricultural Society of England:—Derby meeting, first prize of £5; York meeting, first prize of £5; Exeter meeting, first prize of £5; Lewes meeting, first prize of £5; Gloucester meeting, first prize of £5.

J. & F. H. have recently obtained Her Majesty's Royal Letters Patent for improvements in the manufacture of these Harrows—a most simple and inexpensive mode of securing the teeth is adopted, whereby the shaking loose through wear or neglect is effectually prevented. The holes or mortices of the upper beams are tapped or screwed, and a corresponding thread put upon the teeth, so that when fitted the harrow is

Les Six Premiers Prix suivans pour les Herses ont été adjugés à MM. Howard par la Société Royale Agricole d' Angleterre.—à l'Exposition de Derby, le premier prix, 125f.; à l'Exposition d'York, le premier prix, 125f.; à l'Exposition d'Exeter, le premier prix, 125f.; à l'Exposition de Lewes, le premier prix, 125f.; à l'Exposition de Gloucester, le premier prix, 125f.

J. & F. H. viennent d'obtenir un Brevet d'Invention pour des améliorations dans la fabrique de ces Herses, dont les dents sont serrés d'une manière fort simple et economique qui leur ôte effectivement tout ebranlement causé soit par négligence, soit par usage. Les trous pratiqués dans les fléches, ou barreaux superieures, et les dents, étant tous vissés, il arrive,

as firm as if all parts were welded together, and not more liable to shake loose.

Being made in a zigzag form, the teeth are so arranged that each cuts a separate track at equal distances. The draught being from a centre gives them a decided superiority over any other mode; for, upon the original plan of attaching the horses, if one advanced before the other, the harrows were drawn out of their proper track, and the teeth made to follow each other, which caused a total loss of horse power; but upon this principle the irregular pace of the horses does not affect their working. Each harrow is attached to the whippletree by double hooks, which prevent them in rough work and turning from riding on each other, and also when working upon the side of a hill, from inclining towards the lower ground. They are furnished with hooks at the hinder part, in order to draw them the contrary way when harrowing in seeds, or crops in the spring; by this means the soil is not rooted up or penetrated so deeply as when drawn forward in the usual way.

PRICES.

Harrows with Five Rows of Teeth.

	£	s.	d.
A set of three 4-beam Harrows with whippletree, No. 11, 60 teeth in the set, adapted for three horses, but frequently used with a pair, 10 feet wide	4	4	0
A set of three 3-beam Harrows with whippletree, No. 11, the same strength as last, but only 7½ feet wide, can be used at all times with a pair of horses	3	10	0
A set of three 4-beam Harrows with whippletree, No. 12, the same as No. 11, but lighter and recommended for general seed harrows, 9½ feet wide	3	14	0
A set of three 4-beam Harrows with whippletree, No. 14, the same as No. 12, but much lighter, and adapted for finishing, or seed harrows, on sand and other light land, 8½ feet wide	3	6	0

Harrows with Six Rows of Teeth.

	£	s.	d.
A set of three 4-beam Harrows with whippletree, No. 10, extra strong, and having 72 teeth in the set, adapted for three horses, 10½ feet wide	5	5	0
A set of four 3-beam Harrows with whippletree, No. 10, the same strength as last, but more adapted for land of uneven surface, they are preferred by many, for by taking off one harrow, they are brought at all times within the power of two horses, 10½ feet wide	5	10	0
If with three Harrows to the set	4	4	0
A set of three 4-beam Harrows with whippletree, No. 13, upon the same arrangement as No. 10. but lighter and adapted for a pair of horses, 9½ feet wide	4	4	0
A set of three 4-beam Harrows with whippletree, No. 15, similar to No 13, but much lighter, and arranged so as to leave a fine surface 8½ feet wide	3	10	0

que quand ils sont ajustés les uns aux autres, la herse devient aussi ferme que si toutes les parties en fussent corroyées.

Ces Herses étant faites d'une forme zig-zag est la cause que chaque dent déchire sa propre trace à des intervalles égales. Le trait étant du centre du palonnier présente une grande supériorité sur toute autre manière, car, suivant la coutume ordinaire de les atteler, quand un cheval devance un peu les autres, les dents sont mis hors de leurs traces directes, de sorte qu'ils se suivent les uns les autres, occasionnant une perte totale des forces des chevaux, tandis que les pas irreguliers des chevaux ne dérange nullement l'ouvrage regulièr de ces herses. Chaque herse est attachée au palonnier par des crochets, lesquels les empêchent dans les travaux rudes, et surtout en tournant, de monter les unes sur les autres, et en hersant le penchant d'une colline, de s'incliner trop au terrain inferieur. Elles ont des crochets sur la partie de derrière pour les trainer à la renverse en hersant les semences ou les produits croissants dans le printemps, qui echappent ainsi le dérangement qui serait causé en les travaillant de la manière ordinaire.

PRIX.

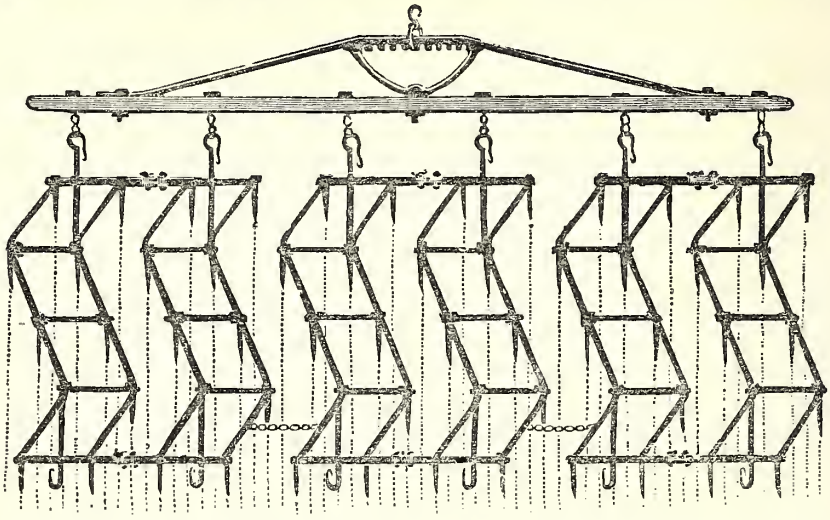
Les Herses à Cinque Rangs de Dents.

	f.	c.
Une suite de trois Herses à quatre flèches avec un palonnier, No. 11, très fortes contenantes 60 dents, fabriquées pour trois chevaux, mais travaillées souvent avec deux seulement, 10 pieds (Anglais) de large	100	75
Une suite de trois Herses à trois flèches avec un palonnier, No. 11, de la même forteresse que la dernière, mais qui n'ont que 7½ pieds (Anglais) de large, pour deux chevaux	84	0
Une suite de trois Herses à quatre flèches avec un palonnier, No. 12, les mêmes que les No. 11, mais moins pésantes, et recommandées pour des herses à semences, 9½ pieds (Anglais) de large	88	75
Une suite de trois Herses à quatre flèches avec un palonnier, No. 14, les mêmes que No. 12, mais beaucoup moins pésantes, construites pour finir l'ouvrage sur les terres sablonneuses, 8½ pieds (Anglais) de large	79	25

Les Herses à Six Rangs de Dents.

	f.	c.
Une suite de trois Herses à quatre flèches avec un palonnier, No. 10, très fortes, ayant 72 dents, fabriquées pour trois chevaux, 10½ pieds (Anglais) de large	126	0
Une suite de quatre Herses à trois flèches avec un palonnier, No. 10, de la même forteresse que les précédentes, mais arrangées pour les terres inégales, en ôtant une de ces herses on peut les faire trainer par deux chevaux c'est pourquoi elles sont plus estimées par quelques individus, 10½ pieds (Anglais) de large	132	0
Avec trois Herses seulement dans la suite	100	75
Une suite de trois Herses à quatre flèches avec un palonnier, No. 13, faites comme No. 10, mais moins pésantes, et arrangées pour deux chevaux, 9½ pieds (Anglais) de large	100	75
Une suite de trois Herses à quatre flèches avec un palonnier, No. 15, semblables à No. 13, mais beaucoup moins pésantes, arrangées pour bien pulveriser le sol, 8½ pieds (Anglais) de large	84	0

HOWARDS' PRIZE SCREWED-BEAM JOINTED HARROWS.



The above possess all the advantages of the Harrows already described, and are the same in principle, but furnished with joints in the centre of each harrow, which allow them to adapt themselves to the form of the ridges or any unevenness of the surface; by a simple arrangement, these joints may be instantly locked, or allowed as much play as required.

It is found desirable in very rough work to fasten the joints.

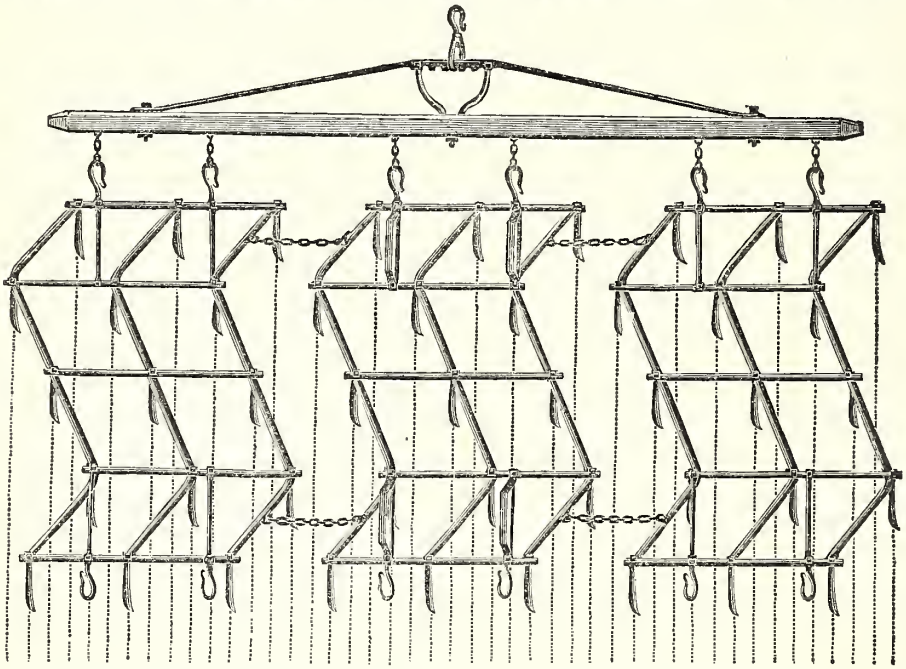
These Harrows are 7*s.* 6*d. per set extra.*

Ces Herses possèdent tous les avantages des herses déjà representées, et sont fabriquées sur les mêmes modèles, mais elles ont une charniére de plus, au milieu de chaque herse, ce qui les laisse s'arranger aux inégalités du surface. Par un arrangement fort simple, on serre les charniéres ou les donne autant de mouvement que l'on ne désire.

Il faut serrer les charnières dans les travaux rudes.

Le Prix de ces Herses est 9*f. extra.*

HOWARDS' PATENT SCREWED-BEAM DRAG HARROWS.



These are made upon the same principle as the preceding, but much larger and stronger. They are used with four horses on rough fallows, and are made to draw back-

Ces Herses sont faites d'après la même modèle que les précédentes, mais elles sont plus grandes et plus fortes. On se sert d'elles avec quatre chevaux sur les jachères

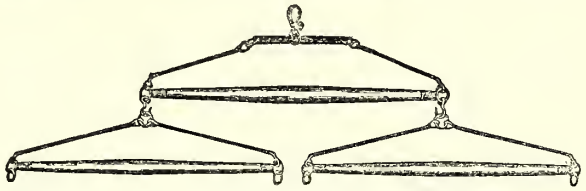
ward and forward; the latter way to answer the purpose of a cultivator or scarifier, the former for breaking clods.

	£	s.	d.
A pair of 3-*beam strong drag Harrows*, 7 *feet wide, teeth* 12 *inches long, marked No.* 16	6	0	0
A set of three 3-*beam drag Harrows with whippletree, upon the same principle as No.* 16, *but of less strength and to cover more ground*, 9½ *feet wide, teeth* 10 *inches long, marked No.* 17	6	10	0

rudes, et on peut les faire trainer ou en avant ou à la renverse.

	f.	*c.*
Une paire de Herses bien fortes à trois flèches avec un palonnier, 7 *pieds (Anglais) de large, dont les dents ont* 12 *pouces (Anglais) de long, marquée No.*16	144	0
Une suite de trois Herse à trois flèches avec un palonnier, fabriquées sur la même modèle que les précédentes, mais moins fortes, dont les dents ont 10 *pouces (Anglais) de long*, 2½ *pieds (Anglais) de large, marquées No.* 17	156	0

HOWARDS' IMPROVED WHIPPLETREES.



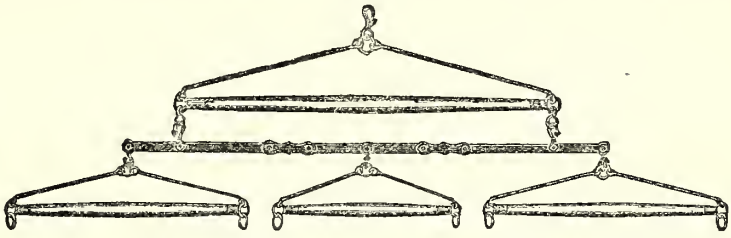
These Whippletrees are made upon Mr. Harding's principle. They are highly recommended for their great strength, lightness, and durability.

Price 11*s.* 6*d. per set.*

Ces Palonniers, construits d'après l'idée de M. Harding, sont recommandés pour leur légèreté, pour leur forteresse, et pour leur durée.

Prix, 13*f.* 75*c.*

HOWARDS' IMPROVED EQUALIZING WHIPPLETREES.



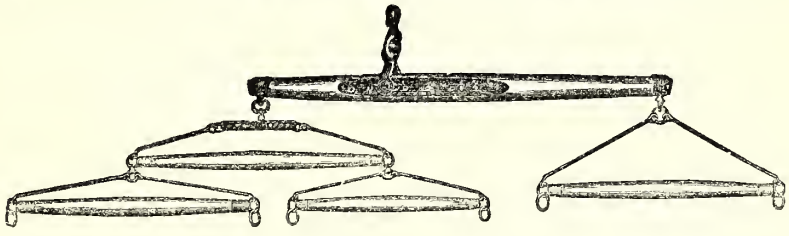
Similar in principle to the last, but with an equalizing motion for working three horses abreast in harrows, scarifiers, &c., &c.

Price, £1 6*s. per set.*

Ces Palonniers égalisent les forces de trois chevaux en trainant côte à côté les herses, &c.

Prix, 31*f.* 25*c.*

HOWARDS' IMPROVED STEELYARD WHIPPLETREES.



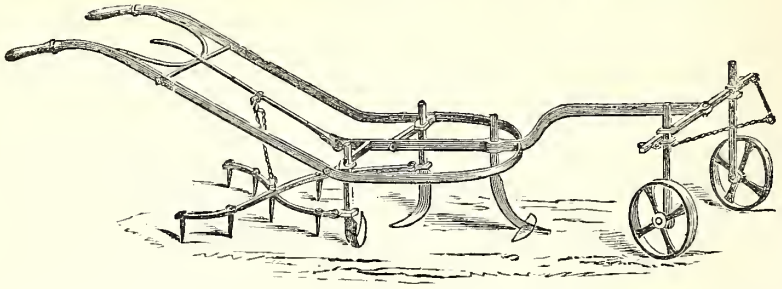
Intended for working three horses abreast at plough, one horse in the furrow, and two upon the unploughed ground.

Price, £1 6*s. per set.*

Ces Palonniers en forme de peson, sont faits pour atteler trois chevaux côte à côté : en sillonnant la terre un cheval marche dans le sillon, tandis que deux marchent sur le terrain.

Prix, 31*f.* 25*c.*

HOWARDS' PRIZE ONE-ROWED HORSE HOE.



The Royal Agricultural Society of England have awarded Two First Prizes to this Implement.

It is made entirely of wrought iron, and intended for one row of beans, peas, turnips, &c., has three shares which are made to slide upon the frame so as to take the various widths required.

J. & F. H. recommend two wheels with swing head, working upon a centre bolt, as the draught being central the implement is not affected by any irregular motion of the horses. this arrangement also eauses the implement to work more steadily.

	£	s.	d.
Price, with one wheel	2	5	0
Ditto, with two wheels	2	15	0
If fitted with an expanding Harrow as above, extra	0	10	0

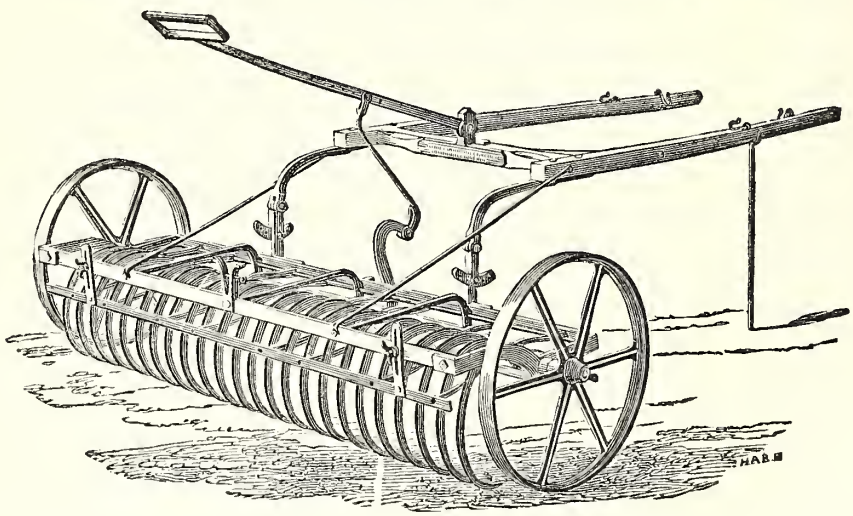
La Soeiété Royale Agricole d'Angleterre a adjugé Deux Premiers Prix à cet Instrument.

Il est construit de fer forgé, et dessiné à houer un rang à la fois, de fèves, de pois, ou de navets, &c., il a trois socs qui glissent sur le châssis, de sorte qu'on puisse houer à aucune intervalle desirée.

Cet Instrument marche avec beaucoup plus de stabilité quand il est eonstruit avec deux roues attachées à un barreau de travers, qui tourne sur un centre; c'est pourquoi J. & F. H. reeommandent les instrumens faits sur cette modèle, au lieu qu'avec une roue seulement.

	f.	*c.*
Prix, à une roue	52	0
Dito, à deux roues	66	0
Avec une herse déployante, attachée comme dans la gravure ..... *extra*	12	0

HOWARDS' PRIZE STEEL-TOOTH HORSE RAKE.



This Implement gained the two First Prizes last offered by the Royal Agricultural Soeiety of England for Horse Rakes. At the Great Exhibition of All Nations Messrs. H. also gained the Prize Medal for tbis Implement.

J. & F. H. beg to invite particular attention to their PATENT STEEL-TOOTH HORSE RAKE, whieh is intended for raking hay, corn, stubble, or twiteh grass. The substitution of STEEL TEETH for iron ones will be found a great improvement; they are much lighter as well

Cet Instrument a remporté les deux Premiers Prix les plus réeemment offerts par la Soeiété Royale Agricole d'Angleterre pour les Râteaux à Cheval. A la Grande Exposition de toutes les Nations, MM. Howard ont aussi remporté le Prix (Prize Medal) pour cet Instrument.

J. & F. H. invitent l'attention spéciale du public à leur Râteau à Cheval aux dents d'aeier, eonstruit pour râter le foin et la chaume, &c. On le trouvera une grande amélioration, que les dents de fer ont été remplacés par des dents d'aeier,

as stronger, not liable to pull straight, or get out of shape, will wear much longer, and on account of their lightness, the power required to raise them is considerably lessened. The shaft irons are furnished with a joint and quadrant, by which the teeth may be readily altered, so as to rake upon their points, or set more or less off the ground. This method is to prevent the rake collecting the soil and rubbish with the corn, an objection frequently raised against the use of horse-rakes. The teeth being curved or sickle-formed, are much stronger than when angular, and the hay and corn works round them more freely. The bar running under the teeth, and by which they are raised, is so arranged that the teeth do not, as in other rakes, rest upon it, but are allowed to drop into any hollow parts of the land. The frame is made entirely of wrought iron. The teeth work independently of each other, and thus adapt themselves to the irregularity of the surface. It is mounted on high wheels, which are capped to prevent the hay, &c., working round the axles. By means of a simple pull-down lever, which requires only the strength of a boy to manage, the rake can be easily emptied of its load without stopping the horse. An improvement has been made in this rake, by the introduction of a plan to raise or lower the lever handle, to suit the height of the person employed to empty it, which avoids the necessity of stooping when relieving it of its load.

	£	*s.*	*d.*
Price, with iron teeth	8	0	0
Ditto, with steel teeth	8	10	0

ee qui les rende plus legers, plus forts, moins sujets à devenir désarrangés ou difformes, et plus durables, et à cause de leur légèreté ils demandent moins de force pour les soulever. Les fers des flèches sont fournis d'un quart et d'une charnière, à l'aide desquels on change facilement la position des points des dents sur la terre pour dégager la boue du blé. Les dents étant courbés sont beaucoup plus forts que quand ils ont une forme angulaire, et le blé et le foin glissent autour d'eux plus facilement. Le barreau qui est placé au dessous des dents, pour les soulever, est tellement arrangé qu'ils ne restent pas là-dessus comme dans tout autre râteau, mais ils montent et descendent librement les inégalités du terrain. Il est dressé sur des roues hautes, dont les bouts des essieux sont couverts pour empêcher au foin d'entrer entre les cylindres de la roue et l'essieu. A l'aide d'un levier, que peut manier un enfant, on dégage facilement le fardeau du râteau sans arrêter le cheval. On ajuste facilement le mancheron du levier pour l'accommoder à la grandeur de la personne qui manie l'instrument.

	f.	*c.*
Prix, aux dents de fer	192	0
Dito, aux dents d'acier	204	0

Messrs. Howard, having been engaged in the manufacture of Agricultural Implements for many years, are well acquainted with the kind required for exportation: their implements are constructed so as to take to pieces, and pack in the smallest compass, and are so simply arranged as to leave no difficulty in putting them together. Three of their Prize Ploughs, with a suitable assortment of shares and other fittings, can be packed in a case $6\frac{1}{2}$ ft. long, 21 in. wide, and 18 in. deep.

MM. J. & F. HOWARD ayant été pendant plusieurs années occupé de la fabrique de Materiel Agricole, et bien instruits de la sorte demandée pour la déportation, font leurs instrumens d'une manière si simple qu'on peut les séparer pour faire un plus petit emballage, et les réunir facilement. On emballe trois de leurs Charrues, avec un assortiment convenable de socs et d'autres garnitures, dans une boîte $6\frac{1}{2}$ pieds (Anglais) de long, 21 pouces de large, 18 pouces de profond.

Address:

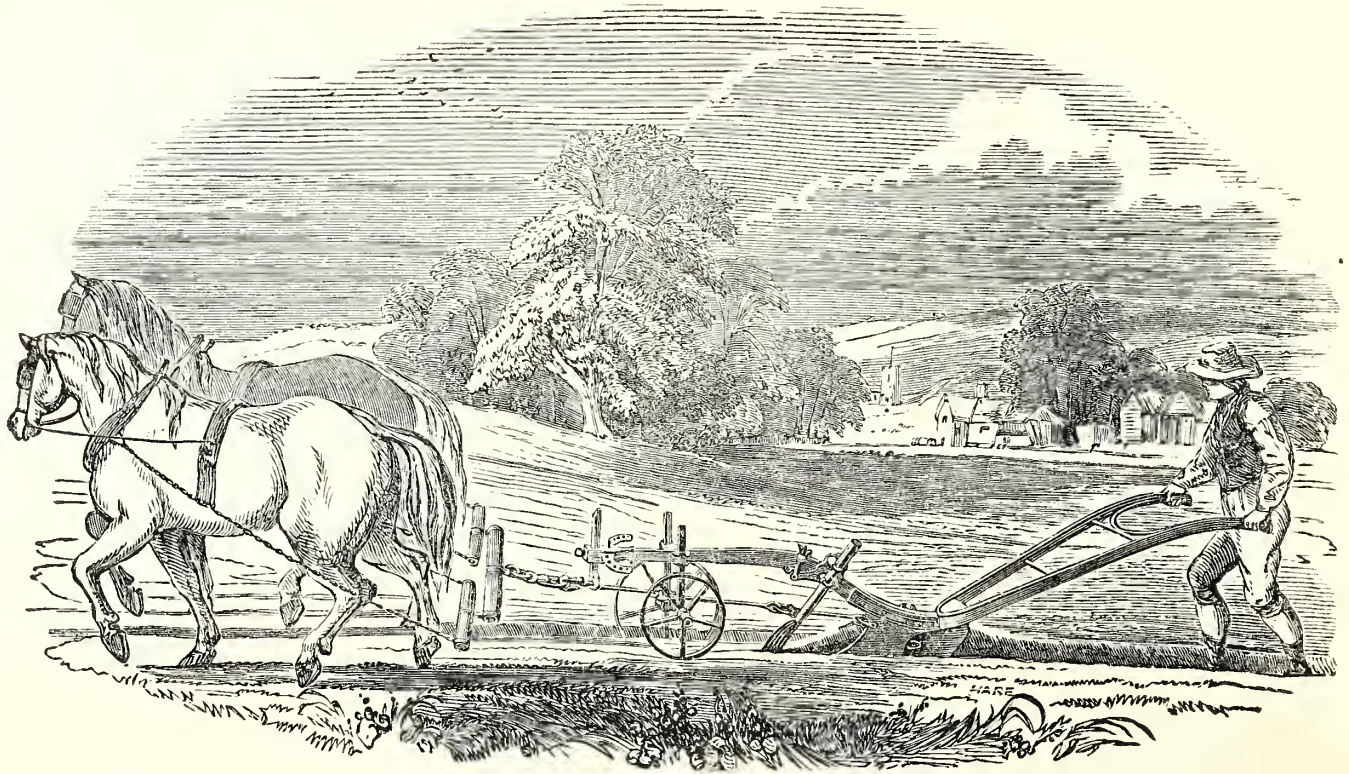
J. & F. HOWARD,
BRITANNIA IRON WORKS,
BEDFORD,
ENGLAND.

S'addresser à

J. & F. HOWARD,
BRITANNIA IRON WORKS,
BEDFORD,
ANGLETERRE.

John G. Nall, Printer, High Street, Bedford.

JAMES AND FRED^{K} HOWARD,



BRITANNIA IRON WORKS, BEDFORD.

A CATALOGUE

OF

AGRICULTURAL MACHINERY

AND IMPLEMENTS,

MANUFACTURED & PATENTED

BY

SMITH & ASHBY,

STAMFORD,

LINCOLNSHIRE.

SMITH & ASHBY have the honour to refer to the following list of Noblemen and other distinguished personages who have patronized their Machines:—

His Royal Highness Prince Albert,

His Grace the Duke of
- BUCCLEUCH
- RICHMOND, K.G. P.C.
- MANCHESTER
- NEWCASTLE
- DEVONSHIRE
- NORTHUMBERLAND
- BEDFORD

The Most Hon. the Marquis of
- TWEEDALE
- BREDALBANE
- CAMDEN
- DROGHEDA.

The Right Hon. the Earl of
- ABERDEEN
- WINCHELSEA
- SANDWICH
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- BRADFORD
- TALBOT
- TYRCONNEL
- BURLINGTON
- DARTMOUTH
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- DONOUGHMORE.

&c., &c., &c.

The Right Hon. Viscount
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The Right Hon. Lord
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- WILLOUGHBY D' ERESBY.
- HATHERTON
- WHARNCLIFFE
- STOURTON
- MIDDLETON.

The Right Hon. the Lady
- ROLLE
- REYNELL
- WILLOUGHBY DE BROKE

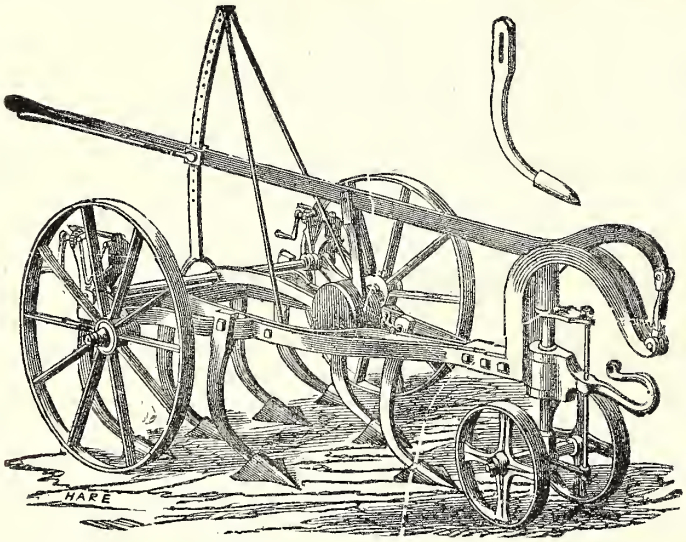
The PRESIDENT and several of the JUDGES of the ROYAL AGRICULTURAL SOCIETY of ENGLAND.

Also the Government of FRANCE,—The Government of PRUSSIA —Some distinguished Agriculturists of BELGIUM, HOLLAND, RUSSIA, PRUSSIA, AUSTRIA, the GERMAN STATES, AUSTRALIA, and AMERICA, and a large majority of the most eminent Agriculturists of GREAT BRITAIN and IRELAND.

Waddington & Son, Printers, Kettering, Northamptonshire

SMITH & ASHBY'S PRIZE GRUBBER,

Or improved Wrought Iron Lever Cultivator, Scarifier, and Paring Plough, for six, four, or two Horses.



FOR this a SILVER MEDAL was awarded at the Meeting of the Royal Agricultural Society of England, held at Newcastle, 1846: again, the Royal Society's Prize at Norwich, in 1849, **£10**; at the Great Yorkshire Meeting, 1849, **£5**; and again the Royal Society's Prize in 1850, **£10**; also again at the Great Yorkshire Meeting, 1850, **£5**; and the Prize of the Royal North Lancashire Show, 1850.

PRICE:	£.	s.	d.
9 Tines Cultivator, No. 1	19	0	0
7 Tines ditto, No. 2 . .	15	0	0
5 Tines ditto, No. 3 . .	11	10	0

Without Raising Apparatus, Nos. 1 and 2, £2 less.

Nos. 1 and 2 are fitted up with S. & A.'s newly invented apparatus for raising or lowering either side to suit the form of the lands.

SMITH & ASHBY invite particular attention to the manifest superiority of this immensely powerful Scarifier and Paring Plough. The entire Frame, Tines and Lever are of Wrought Iron. It can be used with three, five, seven or nine Tines at equal distances, and which are so arranged, that they are not likely to clog up; and *in an instant and with ease* it is raised from its work or lowered into the earth at any required depth. It may also be worked with equal effect on sloping ground, or with one wheel in a furrow, the Teeth penetrating the ground to an uniform depth as on a level.

S. & A. have not room for more than a specimen of the Testimonials received in favour of this machine.

"*Willingham, Huntingdon.*

SIRS,—The Cultivator answers admirably. I am, Sirs, yours respectfully,
"Messrs Smith and Co., Stamford." "WILLIAM ASPLEN."

"*Pinner Hill, near Watford, Herts.*

"Mr. Tooke's compliments to Messrs. Smith and Co., and has received the Cultivator and is much pleased with it."

"*Normanton Turville, near Hinkley, Warwick.*

"GENTLEMEN,—I like your Cultivator very much. "R. W. ARKWRIGHT."

SMITH & ASHBY'S HORN CUTTER.

FOR CLEANING BARLEY.

THIS is a very compact and valuable machine for Preparing Barley for the market, and is allowed to be one of the best Hummellers in use. It is constructed on a simple and effective principle; with Iron Frame; occupies very little space, and will clean from ten to fifteen quarters per hour, improving the market value of the sample, from 2s. to 3s. per quarter.

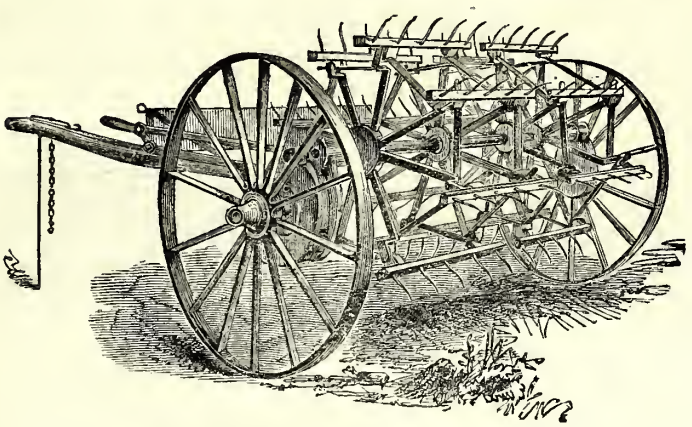
PRICE £5 5s.

Patronized by H. R. H. Prince Albert and by most of the leading Agriculturists of the United Kingdom.

SMITH & ASHBY'S PATENT
EXHIBITION PRIZE HAY MAKER,

WITH DOUBLE ACTION AND REVERSE MOTION.

Price, with Smith & Ashby's Patent Wrought Iron Wheels, £15 15s.



[The Council of the Great Exhibition ordered this Woodcut to be made to illustrate the Report of P. Pusey, Esq., to H. R. H. Prince Albert.—See Royal Society's Journal, 1851, p. 617.]

SMITH & ASHBY have the satisfaction to state that they have now brought their PATENT HAY-MAKING MACHINE to such perfection as to render it almost impossible to put it out of repair, if used fairly and kept well oiled, and it may be managed by a lad.

The following are some of the advantages possessed by this machine:—It has been greatly increased in strength, durability and lightness, weighing considerably less than other Hay-makers, consequently the labour on the horse is now very much reduced. These qualities have been secured by the substitution of Wrought Iron for Cast. The machine is mounted on S. & A's PATENT WROUGHT IRON WHEELS, and it is fitted with great care and exactness in the gear work. Each Tine Bar is fixed with Double Wrought Iron Bearings, and being also furnished with two strong Steel Springs, it is capable of throwing the heaviest crops of grass without clogging, to which all other implements of this kind are liable, and it can be worked on the most uneven ground without the least danger of breaking. Another great advantage in this Hay-maker is the improved method of fixing the shafts, whereby the weight on the horse's back is diminished at least four stone; and a further very important improvement is the application of a Spring Lever Handle, whereby the action of the machine can be instantaneously reversed and thrown in or out of gear, without inconvenience, delay, or danger to the attendant. Particular attention is directed to the very simple and effectual contrivance, by which the Tine Barrels are raised from, or lowered towards, the ground, and set at any height required, with the greatest ease, by means of a winch or crank on the front of the Machine.

S. & A. beg especial attention to a great improvement just introduced in the formation of the Wheels; the Nave is so constructed as to hold the oil on the principle of the Patent Box Axle, the Linch-pin is thereby dispensed with, and the front of the Nave being rounded off, no hay can lodge or wind about it. The Apparatus for raising and lowering the Tine Barrels has also been greatly strengthened, and the fitting up of the Machine throughout generally improved.

S. & A. have great pleasure in directing attention to the following extracts from the Judges' Reports of the Royal Agricultural Society of England, remarks of the Press, and the numerous list of Prizes awarded to this Machine.

Opinion of the Judges of the Royal Agricultural Society of England.

HAY-MAKING MACHINES.—Report of the Judges of the Royal Agricultural Society of England, 1848.— "Out of fifteen exhibited, three were selected for trial, and we were of opinion that Smith and Co's. was the best, and gave it the prize; it appeared to us the *most simple*, and therefore *less likely to get out of order.*"

HAY-MAKING MACHINES.—Judges' Report at the Royal Society's Show at Norwich, 1849.—"We found that in this class of Implements there was practically no competition as SMITH & Co's. MACHINE (of Stamford,) STAND 95, ARTICLE 1, WAS VERY SUPERIOR TO ANY OF THE OTHERS IN ALL ITS PARTS AND PERFORMANCE OF WORK; in fact, we think it so near PERFECTION, that no man need fear buying under the impression that any great improvement will take place in future. We regret to say that ALL THE OTHERS FALL INTO THE SHADE WHEN BROUGHT INTO

COMPETITION WITH IT." *Journal of the Royal Agricultural Society of England, Vol.* 10, *Part* 2, *No.* 24, 1849, *p.* 546.

HAY-MAKING MACHINES.—Report on the Trial of Implements at the Lewes Meeting of the Royal Agricultural Society of England, 1852.—SMITH' of Stamford,* was again victorious. The simplicity of the contrivance for reversing the motion is very clever.—*Journal of the Royal Agricultural Society of England, Vol.* 13, *Part* 2, *No.* 30, 1852, *p.* 346.

* Misprinted "Kettering" in the Report.

OPINIONS OF THE PRESS.

The following remarks on the above Machine are copied from the "*Mark Lane Express*," in their notice of Implements, exhibited by SMITH and ASHBY at the Show of the Royal Agricultural Society of England, at Gloucester, July, 1853.

"MESSRS SMITH & ASHBY'S HAY-MAKING MACHINE has been so long known as the champion of the world for the purposes intended, that it is out of our power to speak too highly of its great merits; and whether the Royal Agricultural Society of England have awarded it a medal this year with the intention of calling the attention of the council to it, that they may, with the advice of their able engineer, award these gentlemen a gold medal for their HAY-MAKING MACHINE, as an implement that is now perfect, we know not; but when we look at the various reports of the judges, we think at least they have got so far in advance of all others that they are entitled to some extraordinary mark of distinction. This implement has from its first exhibition obtained the prizes of the Royal Society, and been invariably noticed (see the reports of 1846, 1847, 1849, and 1850.)

"They likewise exhibited their well-known HORSE RAKE; the merits consist in being made entirely of iron; adapted for Hay, Corn, Stubble, Twitch, or Couch, and light scarifying purposes. The advantages of this implement are its lightness, strength, and the simplicity and power of its leverage, by means of which a boy can work it, without stopping the horse.

"They also showed a variety of their Chaff Engines, which are well-known for their durability, expedition, and stability, for steam and horse power. The merits of these are well known by a large majority of the Lincolnshire farmers as first-rate machines. We were much pleased with a Park or Luggage Cart shown by these gentlemen. It is a neat, convenient little cart, quite the thing for jobbing about a gentleman's lawn or park."

Prizes awarded to SMITH & ASHBY'S Patent Hay-Maker.

The Prize of £5. was awarded to this Machine as the best Hay-maker in use at the Meeting of the Royal Agricultural Society of England, held at Newcastle, July, 1846; £5 5s. at the Great Yorkshire, and £5 5s. at the Derbyshire Meetings, and again at the great Yorkshire Meeting, 1847. Also the Prize Medal of the Royal Society of England 1848, and £4 4s. at the Derbyshire Meeting, as amongst the best collection in 1848, and of the Royal North Lancashire in 1848; again at the Great Yorkshire Meeting, 1849, £3 3s. The first Prize of the Royal Agricultural Society of England, 1849, £5.; again the Prize of the Royal Society of England at Exeter, 1850; the first Prize of the North Lincolnshire, 1850; the first Prize of the Royal North Lancashire, 1850; and of the Great Yorkshire, 1850. PRIZE MEDAL OF THE GREAT EXHIBITION OF ALL NATIONS, 1851. The first Prize of the Bath and West of England Society at Taunton, 1852. Prize of £5. again at the Great Yorkshire Meeting, 1852, and the first Prize of the Bath and West of England Agricultural Society at Plymouth, 1853. And again the Prize Medal of the Royal Agricultural Society of England at Gloucester, 1853. The Prize of the Royal North Lancashire, 1853, and the First Prize of the Bath and West of England Society at Bath, 1854; commended again by the Royal Society at Lincoln, 1854, (no prize offered); and the First Prize of the Highland Agricultural Society at Berwick, 1854.

The above Machine has done the work of 20 *Labourers at one time in a field.*

SMITH & ASHBY have lately introduced a TWO-HORSE DOUBLE-ACTION HAY-MAKER, with FOUR WHEELS, CARRIAGE POLE & DICKEY on the same principle as the above, and possessing all its advantages, and especially adapted for Parks and hilly country, where more than ordinary labour is required to draw it. Price £21.

HAY-MAKER TESTIMONIALS.

From a very large number of Testimonials in favour of these Machines, we have only been able to make room for a few as a Specimen.

From MR. LLEWELLYN F. LLOYD, Cilcen Hall, Mould, North Wales.

I have every reason to expect several orders will be sent from this neighbourhood for your Patent Hay-makers. The one you sent me worked very well, and proved itself a most superior improvement upon all I have ever seen.—The Horse Rake was also most useful

From MR. R. G. FORESTER, High Ercall, Wellington, Salop.

I have now the pleasure of informing you that the Hay-maker worked very well. You are perfectly welcome to make use of anything that I have said in its favour, I consider it a most useful Implement.

From MR. T. T. BURNEY, Moreton Hall, near Norwich.

I cannot speak in too strong terms in favour of your Hay-machine; its work cannot be exceeded. I have just got up two large Stacke of hay in most beautiful order, which I could not have done in the manner it has been done but for your Hay-maker. You may use my name in any way you please in its favour. No one can question its excellence and superiority over all others.

From Mr. G. WAGSTAFF, (Agent &c.,) Gordon Castle, by Aberdeen.

We got our Hay stacked in good condition on the 30th ultimo, notwithstanding there has not been one entire dry day or night since it was cut. Your machine works in grand style, and has been of great assistance to us: indeed, I may say that without the machine, the hay, which is now in excellent condition, must have been very bad, if not useless, as there have scarcely been three successive hours of dry weather since it was stacked.

From MR. G. DRUMMOND, Castle Strathallen, Auchterarder.

I was much pleased both with the Hay-maker and the Horse Rake; they did their work admirably, and saved considerable expence and trouble.

From MR. JAMES DUGDALE, Lowerhouse, near Burnley, Lancashire.

Your Patent Hay-maker has given very great satisfaction, and I have no doubt will lead to many orders.

From MR. H. EKINS, Woodhurst, near St. Ives, Hunts.

I have worked the Hay-maker every day since it came, and think it the best Implement I ever saw. I shall endeavour to recommend it.

From Mr. Fred. STRAW, Bunker's Hill, Lincoln.

Your Implements, both Hay-maker and Horse Rake, gave me great satisfaction.

From MR. T. JAMES SMITH, JUN., Wallington, Bury, Baldock.

The Hay-maker is a most excellent Implement, and works most admirably; it has been of *great service* to me the last Hay Season.

From MR. JEPHSON ROWLEY, Rowthorne, Chesterfield.

I have much pleasure in giving you a willing Testimonial in favour of your Hay-making Machine. The ease with which it is managed and worked by a boy, either in travelling or in the field, renders it the most efficient Implement of the kind to be found at the present day. In the Hay-field it is invaluable; and although I employ the same number of hands as before, the harvest is sooner over, and my hay secured with much less cost and exposure in the field. Having been used to it for several seasons, I could not do without it, and lose no opportunity of recommending it to my friends.

From MR. WM. HARRIS, Plumpley, Bovey Tracey.

I set it to work in a very hilly piece of land, with a heavy crop, and it exceeded my expectations, being so easily set to work, and doing its work admirably.

From MR. W. DICKINSON, 7, Curzon Street, May Fair, London.

The Hay-making Machine which you supplied me with this season my Bailiff thinks a most valuable and perfect Machine; after having made my own hay I lent it to a neighbour who was so pleased with it that he said he should give an order for one immediately for himself.

From MR. JAMES LINTON, Hemingford House, near St. Ives.

I must do you the credit to say your Double-action Hay-maker far surpasses all my expectations: it performs its work

so excellently and efficiently hy minutely dividing every bladc of grass in the swarth, that from the quality of the hay I am now consuming, I consider that it has doubly paid for itself the first year. It is an Implement no grass grower ought to be without.

From Mr. S. M. PRITT, Royal Hotel, Lancaster.

I am in want of a Hay-maker, and havc heen informed by Mr. Drury and Mr. Thompson (Lord Burlington's Agents,) that you would furnish me with the hest, as they have heen working one and it answers very well; they also say that I should have a Horse Rake.

From Mr. S. M. PRITT, Royal Hotel, Lancaster.

The Hay-maker just came in time for a fair trial and answers its purpose uncommonly well: I am very much pleased with it.

From Mr. JERVOISE, Herriard Park.

Mr. Jervoise begs to inform Messrs. Smith that the Patent Hay-maker has doue its work in a very satisfactory manner.

From Mr. Edwd. MUCKLOW, Elton Fold Works, Bury.

I am glad to say both the Hay-maker and Horse Rake answer fully my expectations.

From Mr. Alf. WEBB, Hardwick Court, near Gloucester.

The Haymaker gives good satisfaction.

From Mr. Wm. OVERTON, Wroxham.

The Hay-making Machiue has given great satisfaction.

From Mr. JOHN HERVEY, Tickwell, Bury.

I have found the Hay-making Machine and Horse Drag which you sent me last spring, of very great service during my Hay-time. The former is not liable (as all others I have seen are,) to clog with Hay, and I eonsider hoth of them to be decidedly the best of their class I have ever seen.

From H. N. BURROUGHS, Burlingham Hall.

I am quite willing to hear testimony to the superiority of your Machine over every other Hay-maker I have ever seen.

From Z. SILLER, Rainford Hall, near St. Helens.

I need not say that the Hay-maker pleases me so much, that I would willingly pay £50. for it could I not get it cheaper.

From Robt. PAGE, Esq., Bradwell, near Maldon, Essex.

I enelose you a cheque for the Hay-making Machine which does its work very satisfactorily. I have also one of your Horse Rakes which I find a very useful Implement.

From THOMAS NEWMAN, Esq., Mainhead, near Exeter.

The Hay-making Machine I purchased of you does its work well.

From Mr. JAMES BARNES, Bicton, near Exeter.

The Hay-making Machine, which you supplied to Lady Rolle, arrived in safety, and we are well satisfied with its operation. It is our intention to order *one of your Patent Horse Rakes that we may work the two together*. This I consider very important.

From JOHN NALDRET, Esq., Horsham, Sussex.

The two Hay-making Machines which I purchased of you have given me and my neighbours, who have seen them at work, the greatest satisfaction, and this induces me to request you to send me one of your Patent Horse Rakes immediately.

From Fred. GREENWOOD, Esq., Norton Conyers, near Ripon, Yorks.

I have had your Hay-maker in use almost daily since I received it, and am glad to say it does it work very satisfactorily, and with your printed instructions, my men seem to understand it quite well. *I have taken care to see that it is well oiled and greased every morning before starting to work.*

From VALENTINE HILL, Esq., Kimholton.

The Hay-maker you supplied to His Grace the Duke of Manchester came safe to hand, and gives satisfaction.

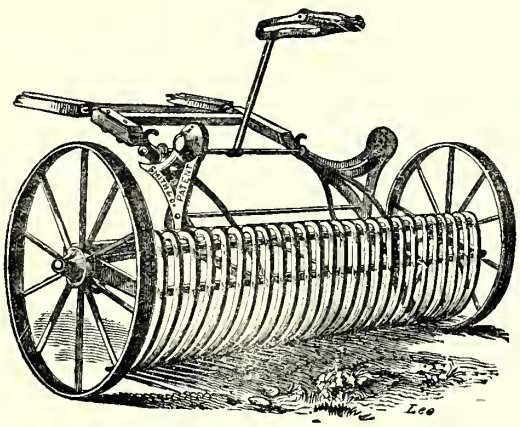
From Mr. Edw. HEATON, the Springs, Lothersdale, Yorks.

The Hay-maker arrived safe and exceeds all our expectations. It does its work most admirably. I have had many persons to see it, some have come upwards of 10 miles for this purpose. One gentleman, after seeing it work, was so much pleased with its operations, and the simple contrivance of setting it in and out of work, and reversing the action, as well as the ingenious method of raising or lowering the Machine, that he ordered me to write for one for himself immediately. You will therefore please to forward another without delay.

SMITH AND ASHBY'S PATENT

EXHIBITION PRIZE HORSE RAKE,

FOR HAY, CORN, COUCH OR TWITCH, STUBBLE, &c.



[This Woodcut was made hy order of the Council of the Great Exhibition, to illustrate the Report of P. Pusey, Esq., to H. R. H. Prince Albert. See Royal Society's Journal, 1851, p. 616. It represents the Rake mounted on S. & A's Patent Wrought Iron Wheels and with the teeth partially raised, in order to show the manner in which they are relieved of their load, by passing over the hack bar.]

THIS Implement is a most important and valuable accompaniment to the Hay-making Machine, especially if the season be showery; the one for spreading, and the other for collecting, in order to secure from damage by further exposure.

The following improvements have been added to this Horse Rake:—Caps have been fitted to the wheels to prevent the Hay from winding about the axle; the Teeth have been so arranged as to rest more upon their back, which prevents all damage to the plant; a simple apparatus has been added to regulate the Height of the Teeth at pleasure; and the ends of the frame have been considerably strengthened.

The general advantages of this Rake are, 1st,—Its lightness and strength. 2nd,—The remarkable simplicity and power of its patented leverage, by means of which a boy can work it with the greatest ease, and without stopping the horse. 3rd,—The formation, arrangement, and action of its teeth, which are placed outside the back bar of the frame, and on being raised from the ground, sweep the whole length of their curve over and close to this bar, thus doing away with the necessity of an apparatus for clearing the teeth, and

which totally precludes the possibility of its clogging, at the same time ensuring a neat, compact, and instantaneous delivery of the load. The above advantages have been patented by Messrs. Smith & Ashby, and are peculiar to this rake.

This Rake took the Prize Medal at the Great Exhibition of all Nations, 1851, and has also taken THIRTEEN PRIZES from the Royal Societies of Scotland, the Royal Society of Ireland, and from the various other Agricultural Societies at whose Meetings they have been shown.

This well-known Rake was considered by the Council of the Great Exhibition so perfect an implement of its class, that they ordered a drawing of it to be taken to illustrate their Report to H. R. H. Prince Albert, *(see Royal Society's Journal,* 1851, *Part* 2, *page* 616), and it is a most valuable accompaniment to S. & A.'s **Patent Hay Maker.** The wood-cut represents it with the Teeth partially raised in order to show the manner in which they are relieved of their load **by passing over the back bar, a Patented advantage which no other Rake possesses.**

The great demand for this implement is a most satisfactory proof of its efficiency, nearly **1600 having already been sold, PRICE, with S. & A.'s Patent Wrought Iron Wheels, £7 10s.**

HORSE RAKE TESTIMONIALS.

From Mr. JAMES BARNES, Steward to Lady Rolle, of Budleigh, near Exeter.

The Horse Rake you sent us is not only a very useful and valuable artiele in Hay and Corn Harvest, but is also most valuable in Raking the Moss out of old Pasture Land, also for raking and working in about the roots of the grass any kind of eompost or manure after being spread, also for raking up any kind of rubbish from Pasture or Arable Land, tree leaves from the Parks, &c., &e., and for raking in seeds or corn on light land, and loosening the bound close surface about young elover and grasses, young wheat, &c. when properly managed. January 23rd, 1854.

From Mr. ROBT. CHATER, Rothwell Lodge.

I cannot withold my testimony to the value of your exeellent Horse Rake. I consider it one of the most useful and best Implements on my farm and decidedly it is the best Rake I have ever seen.

From Mr. ROBT. RAYNBIRD, Hengrave, Bury St. Edmonds.

I like your Horse Rake very much, and so I believe does my friend, Mr. Wilson, of Stowlangtoft Hall.

From Mr. CHARLES FIELDSEND, Kermond.

I have enclosed you a eheque for the Rake, and can assure you I am much pleased with it.

From Mr. Thos. HASELWOOD, Withybrook, Dole House.

I have been working your Horse Rake, and find it works very well. I have strongly recommended it to my friends.

From Mr. W. SERGEANT, Wyken House.

I received the Horse Drag Rake, and like it very much.

From Mr. Robt. BEMAR, Donnington House, Glouecstershire.

The Horse Rake is approved of very much; I shall most probably have several more orders for you in the spring of the next year.

From Mr. JOHN HIRCY, Hawthorn Hill, Maidenhead.

Your Horse Rake is one of the most valuable Implements on my Farm.

From Mr. Wm. BAILEY, Haywood Oaks, Nottinghamshire.

I have tried your Horse Rake and like it very much, finding it does its work exceedingly well, and I think it one of the most useful Agricultural Implements in use.

From Mr. JOSIAH HILL, Bristol, East Dereham, Norfolk.

I beg to enelose you a eheque for the three Horse Rakes. I shall be ready to forward my Testimonial in their favour if required.

From Mr. JOHNSON STUBBS, Stone Lodge Farm, Sutton, Surrey.

Please send Mr. Alfred Collins, my neighbour, a Horse Rake similar to the one Mr. Laneefield, of Camberwell, ordered of you for me. I believe it to be one of the most useful tools that ean be used upon a farm. You are quite at liberty to publish my Testimonial: and further, you may refer any of your friends to me upon the subject.

From Mr. NEWMAN HATLEY, King's Langley, Herts.

You have my full permission to make use of my opinion of the Rake in any way you please. I eonsider it has earned its eost this year, having raked nearly 250 acres of barley and oats, and so clean that the stubbling would have starved the pigs. It enabled me also, to keep the barley raked so close and quickly, that I have earried all good. I was in fear, before using it, that it would rake up many stones, (my farm being a very stony one); but by emptying it often, we had very few.

From Mr. W. R. SMITH, Cressy Hall, Lincolnshire.

I find the Horse Rake a very useful Implement. I have by this time tried it all ways, and am fully satisfied with it.

From Mr. SAMUEL ROSLING, Corner Hall, Hemel-Hempstead.

Your Horse Rake I much approve of; it is a valuable Implement.

From Mr. STEPHEN GRAY, West-Newton Grange, near York.

I received your Rake safe, and am very pleased with it.

From Mr. Wm. Hy. DRUMMOND, Castle-Strathallen, Auchterarder.

I was much pleased both with the Hay-maker and the Horse Rake; they did their work admirably and saved considerable expence and trouble.

From Mr. T. T. BERNEY, Morton Hall, near Norwich.

Your Hay gatherer or Stubble-rake is excellent, and much to my satisfaction.

From Mr. T. O. G. POLLOCK, Morton's Town, Navan, Ireland.

The Horse Rake works admirably.

From Mr, JOSEPH COX, Litten, near Dorchester.

I have tried the Rake at Hay and Couch, and with the perfect manner in which it did its work in the Hay field I was much pleased, and expect to be more so in harvest.

From Mr. Geo. R. CROSS, Taplow.

I have received the Rake, and I very mueh approve of it.

From Earl LISTOWEL, Convermare Mallen, Ireland.

I have seen the Rake at work upon a barley stubble with strong new lea and very stony ground, and am happy to bear testimony to its being an admirable Implement.

From Mr. F. WILSON, Skellingthorpe, near Lincoln.

I am glad to say the Horse Rake answers every purpose that I wanted it for.

From Mr. JOHN HARVEY, Ickwell, Bury.

I have found the Horse Drag and Hay-making Machine whieh you sent me last spring of very great serviee during my Hay time. The former is not liable (as all others I have seen are,) to elog with hay, and I consider both of them to be decidedly the best of their elass I have ever seen.

From Mr. THOMAS WOODS, Wytchley Warren, near Ketton.

I have used the Horse Rake I bought of you four years, and consider it so very effective an Implement that I would not on any aceount be without it in the winrowing of Hay. It is decidedly of great utility, and I have not on any occasion observed it to elog in the delivery of its load.

From Mr. J. C. NICHOLLS, Toft, near Bourn.

I eonsider the Horse Rake I purchased of you a very valuable Implement, certainly the best I have seen of the kind, combining strength with lightness, very manageable and effective, delivers its contents without clogging, and it has given me full satisfaction.

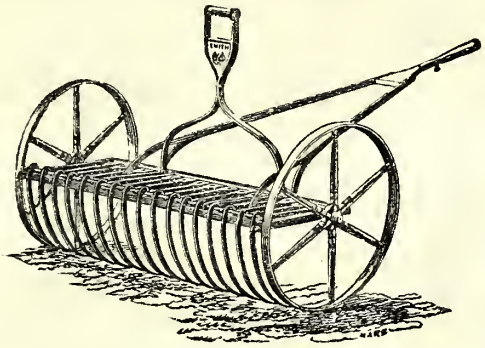
SMITH & ASHBY'S PATENT WHEEL HAND RAKE,

(THE PRIZE RAKE OF THE NORTH LINCOLNSHIRE SHOW,)

For Grass, Hay, Corn, Stubble, &c., no raking of Clods or Stones.

PRICE £2.

"A most simple and effective implement, superseding the old drag, and effecting a great saving in time and labour."—*See Farmer's Journal, and other Reports of the Great Smithfield Club Meeting.*



THIS Implement combines to a great extent the advantages of a Horse Rake with the lightness and facility of a Hand Rake. *It does away with the great inconvenience common to all Drag Rakes hitherto in use,* each tooth acting independently, and clearing all furrows on corn land, and hollows in the hay-field. It will also be found to be *less costly* in consequence of its *great durability,* the teeth being made of spring steel in a frame of iron; and it will do a *great deal more work in less time, and much cleaner and better* than any other kind of Rake. For all *corn land* it is especially useful, clearing itself of all clods or stones. By a slight movement of the hand, it casts its load of Corn or Hay neatly in winrows whilst going along, at the same time leaving it lightly turned over to dry; thus obviously saving much labour. One or more of the teeth may be unscrewed and taken out or replaced at pleasure, to suit all kinds of work.

HAND RAKE TESTIMONIALS.

From Mr. HENRY ABLE SMITH, Wilford near Nottingham.

The Hand Rake does it work *uncommonly well* and is *much superior to the old kind,* which I had in the field at the same time, on purpose that I might judge better of their respective merits; *there is no comparison in the clearing of the ground! I believe it will pay itself in one field of barley which has been raked* (about six acres.) The fault which I complained of as to the teeth being hardly strong enough is now perfectly remedied, and I have great pleasure in transmitting this Testimonial, of which you may make whatever use you think proper. I have also raked clover with it, and am much pleased with the work.

From Mr. JOSEPH BROWN, Middleton Scriven.

I enclose a Post-office order for your Patent Rake, and beg to say I am very well satisfied with it.

From Hambledon, near Henley.

Mr. Barker is quite satisfied with the effieiency of the Rake, and his men prefer the use of it to the former Ell Rake they had been accustomed to.

From Thos. FISON, Barningham, Suffolk.

I have great pleasure in bearing testimony to the value of the Patent Hand Rake which I had of you; both for grass and corn it is decidedly *the best* Implement I ever saw.

From Mr. CHARLES GIBSON, Foulden West Moins, Berwickshire.

The Rakes answer the purpose very well. I have tried them on corn stubbles.

From Mr. JAMES HUNTLEY, Dean House, Walbottle.

I find your Rake a most useful Implement; it has paid me twice over this season.

From Mr. JOHN HOLDSWORTH, Amble Links, near Alnwick.

Your Rake arrived quite safe, & has performed its work well.

From Mr. J. OLDROYD, Royston, near Barnsley.

Your Patent Lever Hand Rake arrived in due time; and, having given it a fair trial, I can truly say that it has given great satisfaction.

From Mr. Robt. DASHWOOD, Beecles, Suffolk.

Your Hand Drag Rake came safely to hand last Saturday, and at present gives much satisfaction.

From Mr. G. WAGSTAFF, Gordon Castle near Aberdeen.

My man likes the Hand Rake exceedingly; his fears about heaviness are quite expelled, and he now wishes it a foot wider. We all agree with him that it would still be light enough for any man to work with ease.

From Mr. THOMAS SHEPHERD, Kingsbury Episcopi, Devonshire.

I have used the Patent Lever Wheel Hand Rake you sent me, and find it to answer the purpose exceedingly well.

From Mr. Edwd. GRUBB, Jun., Bromyard.

Your Hand Rake has given great satisfaction.

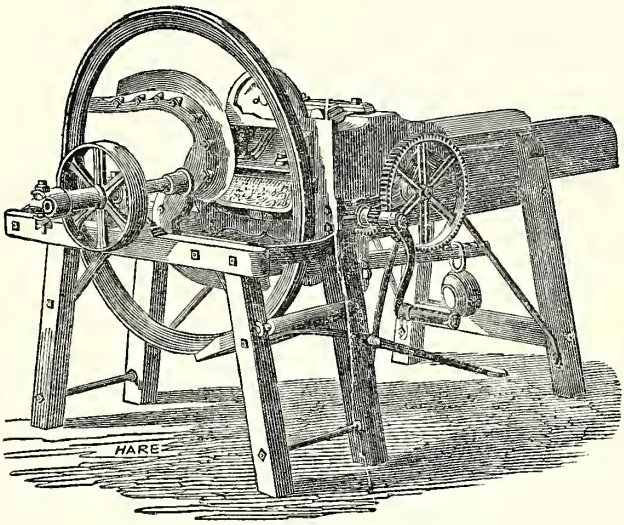
SMITH & ASHBY'S IMPROVED HORSE WORKS,

FOR DRIVING MACHINERY, ADAPTED FOR ONE OR TWO HORSES,

Constructed on the most approved principle, of great strength and easy working. PRICE **from £10 to £15.**

Smith & Ashby's No. I. 18-inch Patent Safety Exhibition PRIZE CHAFF CUTTER.

UNDER THE PATRONAGE OF H. R. H. PRINCE ALBERT.



THIS celebrated Machine was recommended to H. R. H. Prince Albert two years ago, by the eminent engineers of the Royal Agricultural Society, Messrs. Easton and Amos, of London, for the use of the Osborne Farm, and has given such entire satisfaction, that the Patentees have received orders to forward another for H. R. Highness's Farm at Windsor.

Particular attention is directed to the following extract from the Report of the Judges of the Royal Agricultural Society at Lewes, 1852.

"The Judges beg to commend the Machine of Messrs. Smith of Stamford, for a side lever, by which the feeder can reverse the action of the Machine (even if both hands should be caught in the rollers) by pressing his body against the lever. They are of opinion, from the number of accidents that have occurred, that all Chaff Machines driven by horse or steam power, should be perfectly under the control of the feeder, under *all* circumstances, and suggest that in future none be eligible for prizes that are not so arranged."

This Chaff Cutter received the Prize of the Great Exhibition of 1851. It was also the Prize Implement of the North Lincolnshire Meeting, 1847, and at the Derbyshire Meeting, as amongst the best collection of Implements, 1848; also the Prize Implement of the Great Yorkshire Show, 1849, and it took the silver medal at the Great Yorkshire Meeting, 1850.

This is a most powerful Machine for Horse, Steam, or Water Power; it is fitted with two knives. The mouth is eighteen inches wide; it will cut any length from a quarter of an inch to five inches, and from 800 to 1000 bushels or eighteen to twenty cwt. of short chaff per hour, and cuts a wagon load of straw into litter in twenty minutes. The knives are adjusted to the mouth without wedges, and it possesses the advantages of an easy drawing cut of five feet in length. It will not choke or clog, even if fed with wet fodder. It is fitted with Smith and Ashby's Patent Safety Apparatus for stopping the action of the rollers, to prevent any accident to the person feeding, which is exceedingly simple, and has been strongly recommended by the Judges of the Royal Agricultural Society. The fly wheel rests on a double bearing to ensure a steady movement. This Machine took the Prize Medal of the Great Exhibition, 1851, and was highly commended to H. R. H. Prince Albert by the Judges of the Royal Agricultural Society, in their Great Exhibition Report on Agricultural Implements.—(See Journal of the Royal Agricultural Society, Vol. xii., Part 2, No. xxviii. 1851, Page 634.)

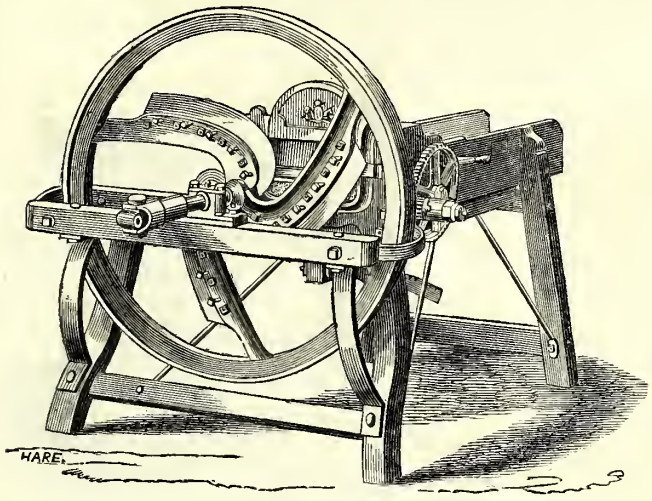
PRICE £17. If for Litter, £3 extra.

Smith & Ashby's No. 2, 2-Knife Patent Safety Exhibition PRIZE CHAFF CUTTER.

The same Machine as No. 1, possessing all its advantages but a size smaller.

PRICE £15. If for Litter, £3 extra.

Smith & Ashby's No. 3, 3-Knife Patent Safety Exhibition PRIZE CHAFF CUTTER.



THIS is a most admirable Machine; it is the same in principle as the No. 1, but smaller, and has three knives; it is fitted with Smith and Ashby's Patent Safety Apparatus for preventing accidents. The Prize Medal of the Great Exhibition of 1851 was awarded to this Machine; it was highly commended also by the Judges of the Royal Agricultural Society of Exeter, 1850, and it cut a greater quantity of Chaff, in proportion to the power required to drive it, than either of the other six tried at that Meeting; taking 593 units of power less than any of the rest.—(See Journal Part 2, 463.)—It will cut from 14 to 16 cwt. per hour.

This Machine carried off the First Prize of £5 at the Bath and West of England Agricultural Society's Show, at Plymouth, in June, 1852, was again highly commended at the Show held at Bath, in June, 1854, and is unquestionably the most powerful and durable Machine in the Market, with the exception of S. & A.'s No. 1.

It is fitted with S. & A.'s Patent Apparatus for preventing accidents, which was so highly commended by the Judges of the Royal Society in their Report of the Lewes Meeting, 1852.—(See Journal, Part 2, Page 326.) Made in different sizes. Price £13 10s., if for Litter £2 10s. extra.

Horrible Accidents from Chaff Machines are continually being recorded, which in *almost every case* might have been avoided if those machines had been fitted up with Smith and Ashby's Patent Apparatus for throwing the rollers out of gear. Too much attention cannot be paid to this very important improvement, which has been so strongly recommended by the Judges of the Royal Society. Many a valuable servant has lost his life, or been disabled by the neglect of this precaution. If, as the Judges have decided, no Chaff Machine ought to be eligible for a Prize, that is not fitted with such safeguard, then no Machine ought to be brought into use without it. But a few months ago, a poor fellow in Norfolk who was feeding a Machine, fitted without this Apparatus, got his fingers between the rollers, and his hand and arm were chopped up nearly to the elbow; of course, death ensued almost immediately. S. & A. never send out their Machines without this apparatus.

Testimonial from the President of the Agricultural Society of Laibach, Austria.

"Messrs. Smith & Ashby, Stamford, Lincolnshire.—I bought last year, in the exposition, at London, a Chaff and Litter Cutter, No. 3, with three knives, which gives me much pleasure and satisfaction; it is driven by water power. The Archduke John, of Austria, gave me the pleasure and honor to come and see it work, and found it so good, and so approved, that he will give you, in a short time, a commission to send him one like it. To-day I pray you to have the kindness to send me another of the same Machines, for one of my friends, with fast and loose pulley, to be worked by water power, and two sets of extra knives; my Banker, in London, whose address I send you, will pay for the same when ready, and will give you orders for shipment.—With the greatest respect, I sign, FIDELIS TERPINZ."

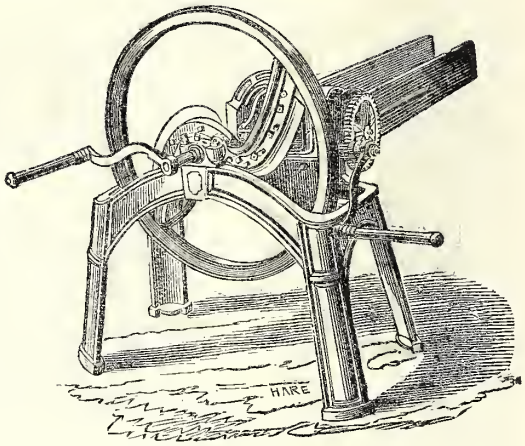
Smith & Ashby's new Improvements in Hand Power Chaff Machines.

S. & A. have just introduced improvements in their Hand-power Chaff Cutters, which will tend to reduce the amount of labour required to work them, a desideratum of great importance in machines worked by hand power. These Machines are also further improved by being mounted on an arched Iron Frame, which S. & A. have lately Registered. The advantages secured by this new frame are the solidity and firmness of footing given to the Machine, and the configuration of the Machine is rendered altogether more compact, will occupy less room, and is far less liable to fall or break than those with long legs. The manner in which these new Machines perform their work, and their remarkably easy cut, have been admired by all who have seen them tried, and so great has been the demand for them in the immediate neighbourhood of the Works, that the Patentees have found it difficult to keep up the supply.

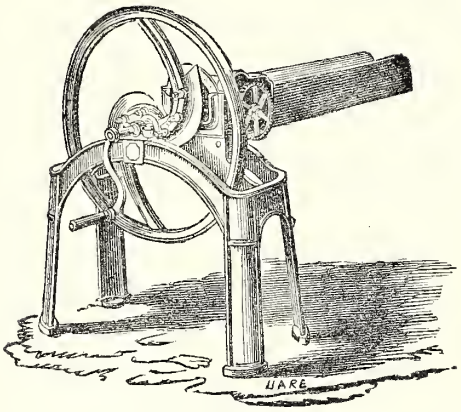
Smith & Ashby's No. 4, Hand, Horse, or Steam-power CHAFF CUTTER,

Fitted with two handles, and S. & A.'s Patent Safety Lever, and mounted on their Registered Iron Frame.

THIS is an entirely new Machine for Steam, Horse, or Hand Power, fitted with two handles, and is calculated to cut a larger quantity of chaff in a given time, and with greater ease, than any other machine yet introduced. It has a twelve-inch mouth-piece; in principle it is the same as No. 3, is fitted up with change wheels, and mounted on S. & A.'s registered frame, is very easy to work by a man and boy, and suitable for one horse. It is fitted with S. & A.'s Patent Safety Apparatus for instantaneously stopping the rollers to prevent accidents. **Price £9 10s.**



Smith & Ashby's No. 5, 2-Knife Patent Safety CHAFF CUTTER.



THIS Wood-cut represents SMITH & ASHBY'S No. 5, and No. 6, Patent CHAFF CUTTERS mounted on their Registered Iron Frame.

This Machine is for hand power: it is remarkably easy to work by one man, and cuts a great quantity of chaff. It is the same in principle as No. 3. Mouth-piece ten inches, fitted up with change wheels and S. and A.'s Patent Safety Apparatus, and it is considered one of the cheapest Hand Power Chaff Machines in the market.

Price £7 7s.

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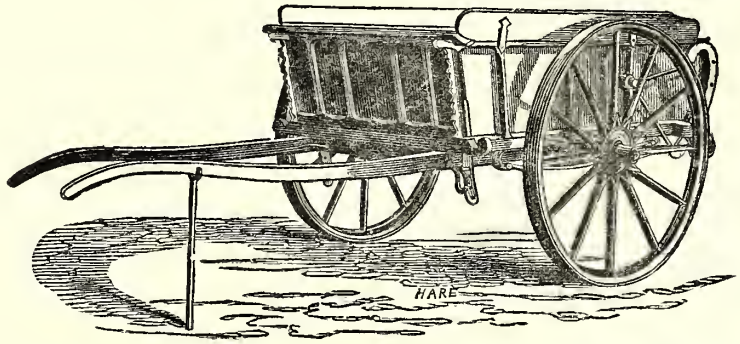

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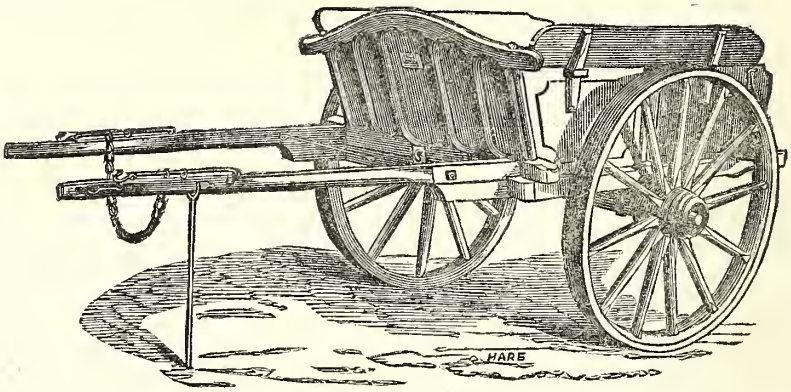

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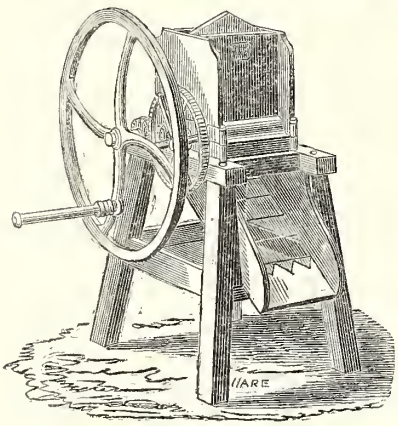

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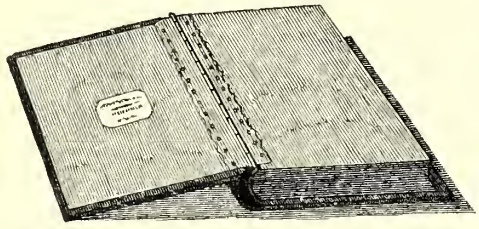

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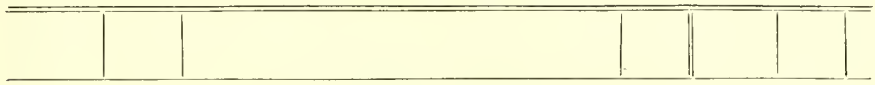

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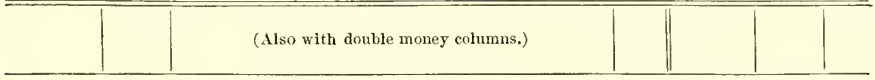

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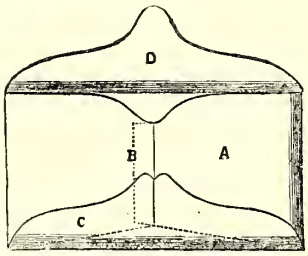

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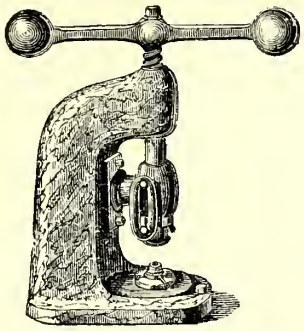

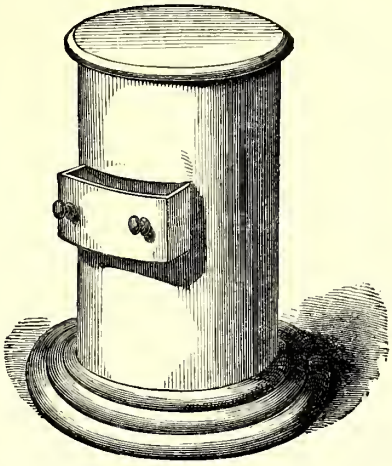

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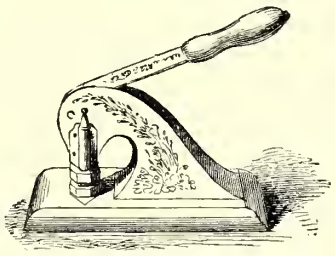

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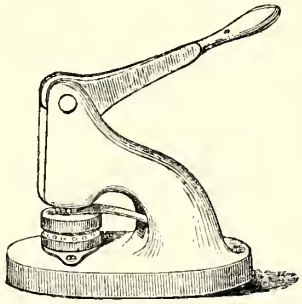

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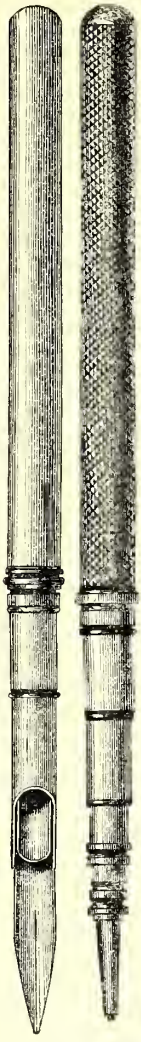
The PERRYAN SILVER PEN, fine and medium points, per gross, 5s.; half gross, 2s. 6d.; and packets of 1 dozen, 6d.

*** *Any of the above Pens sent, post free, for 6d. per gross extra.*

Quill Pens, at 4s., 6s., 8s., 10s., and 12s. per 100. Turkey Quills, 3s. and 6s. ditto.

Quill Nibs, in Boxes of 50 (warranted cut with a knife) ... 2s.; per 100 ... 3s. 6d.

24 and 25, Birchin Lane, Cornhill, 65 to 68, London Wall,



GOLD AND SILVER EVER-POINTED PENCIL CASES AND PEN-HOLDERS.

It is with the utmost confidence that Messrs. Waterlow and Sons have now to direct the attention of their friends to their extensive stock of Gold and Silver Pencil Cases, &c., which are manufactured expressly to their order, with the greatest care and attention as to beautiful workmanship, and with strict regard to the quality of the material employed. The annexed Drawings represent the most useful patterns, all of which are manufactured for Pen only, Pencil only, Pen and Pencil, ditto with reserve, ditto telescope, and with or without seal heads. They are all fitted with ever-pointed leads of first quality only, with fine points, or with the celebrated Wellington Leads, which are recommended to the use of legal gentlemen and others for rapid memoranda; the lead, being broader and stronger, does not break so readily as the finer pointed Pencils, and, as it lasts considerably longer, a reserve is not required. All the following description of Pen Holders and Pencil Cases may be had in either of the patterns shown by the Drawings.

STERLING SILVER CASES.

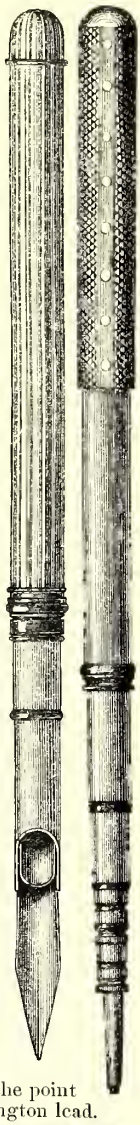
		s.	d.
No. 1	Pen only	4	6
2	Pen and Pencil	8	0
3	Pen and Pencil, with reserve for leads... ...	9	0
4	Pen and Pencil, telescope, and ditto	10	6
5	Pen and Pencil, with reserve and seal head ...	12	0
6	Pencil only	5	0
7	Hexagon pattern, Pencil only	6	0
8	Pocket Book Pencil	3	6
9	Ditto ditto with slide	5	6

SOLID GOLD CASES.

		£	s.	d.
40	Pen only	1	12	0
41	Pen and Pencil	3	0	0
42	Pen and Pencil, with reserve for leads	3	3	0
43	Pen and Pencil, with reserve for leads, and seal head	3	5	0
44	Pen and Pencil (telescope) with reserve ...	3	10	0
45	Hexagon Pattern, pencil only	1	17	6
46	Pencil only, with reserve, for waistcoat pocket	1	7	0

For Presentation.—The No. 44 Telescope Gold Pen and Pencil case, shutting up to only 3½ inches in length, with reserve, fitted with Gold Pen, and engraved with name or address or crest, forms the most elegant and appropriate present for a gentleman; the prices complete, including engraving and neat morocco case, are,

With 5s. Pen	... ...	£3	17 6
„ 10s. „	... ...	4	2 6
„ 20s. „	... ...	4	12 6



PATENT EVER-POINTED POCKET OFFICE PENCILS,

As a substitute for the Cedar Pencil, which causes much inconvenience from the point continually breaking. They may be had with fine points, or the broad Wellington lead.

		s.	d.
11	Patent Propeller Pocket Pencil, wood	1	0
12	Ditto ditto ivory	2	0
13	Ebony handle, and silver point ...	2	6
14	Plain ivory handle, and ditto ..	3	0
15	Fluted ivory handle, and ditto ...	4	6
16	Pearl handle, and ditto	5	0
17	Ivory & Silver Pencil, neatly fitted with Penknife, a most useful and complete article for the pocket ...	5	0
18	Ebony handle and silver point, 6 in. long, for the desk	2	6
19	Ivory handle, with silver point and reserve, ditto	3	0

Leads for replenishing Ever-pointed Pencils, in Packets of One Dozen, 1s. and 2s.

WHATMAN'S DRAWING PAPERS.

ROLLED OR UNROLLED.*

W. & Sons being the *Mill Agents* for these celebrated Papers, are enabled to offer a selection from the largest and most varied stock in London, upon the most liberal terms.

Name of Paper.	Size in Inches.	Price per Single Quire.	Price per Quire for Five Quires.	Price per Ream.
		£ s. d.	£ s. d.	£ s. d.
Antiquarian	53 by 31	3 0 0	2 15 6	51 14 0
Antiquarian, 2nd quality	53 „ 31	1 5 0	1 2 6	20 12 0
Double Elephant	40 „ 27	0 13 0	0 12 0	11 3 0
Atlas	34 „ 26	0 10 6	0 9 6	8 16 0
Colombier	34 „ 23	0 10 6	0 9 6	8 16 0
Imperial	30 „ 22	0 7 0	0 6 3	5 16 0
Elephant	28 „ 23	0 7 0	0 6 3	5 16 0
Super Royal	27 „ 19	0 5 0	0 4 6	4 2 6
Royal	23 „ 19	0 4 0	0 3 9	3 8 6
Medium	22 „ 17	0 3 3	0 3 0	2 13 0
Demy	20 „ 15	0 2 3	0 2 0	1 16 0

Double Thick Rough Drawing Imperial, per quire . . . 12s. 6d.
Do. do. Double Elephant, per quire . . 20s. 0d.

* In ordering Drawing Paper, it is advisable to state if required Rolled or Unrolled. When not otherwise specified, it is sent *Unrolled*.

WHATMAN'S DRAWING CARTRIDGE.

Double Elephant	0 11 6	0 10 6	9 15 0
Do. 2nd quality	0 9 0	0 8 0	7 5 0
Imperial	0 6 6	0 6 0	5 10 0
Do. 2nd quality	0 5 0	0 4 6	3 15 0

STRONG CARTRIDGE FOR BUILDERS' WORKING DRAWINGS.

Double Elephant	0 6 6	0 6 0	5 10 0
Imperial	0 3 9	0 3 6	3 3 0
26 by 21	0 3 3	0 3 0	2 14 0
Ditto second, 50 lb.	0 2 6	0 2 3	2 0 0
Ditto ditto 40 lb.	0 2 0	0 1 9	1 12 0
Ditto ditto 30 lb.	0 1 6	0 1 4	1 4 0

CONTINUOUS DRAWING CARTRIDGE,

4 feet 6 inches wide, and of any required length, without a joint. This paper will work and colour as well as the best Drawing Paper. It will be found invaluable for Railway Plans and Sections, Contract Drawings, Manufacturers' Designs, &c., and is admirably adapted for Cartoons, Diagrams for Lectures, or large Water-colour Drawings.

54 inches wide . . . . per yard run 1s. | Ditto, second quality . . per yard run 9d.

MOUNTED DRAWING PAPER.

	Per foot square.
Antiquarian, on very best linen or holland	8d.
2nd do. and first quality, Double Elephant to Demy (inclusive) on ditto	6d.
Ditto ditto ditto, 2nd linen	4d.
Continuous Drawing Cartridge, on best linen or holland	6d.
Plans mounted on fine linen	4d.

The following mounted Drawing Papers on brown holland, at 6d. per square foot, and on second linen, at 4d. per square foot, are always *kept in stock*.—

Double Elephant, 26 inches wide.
„ 39 „
„ 52 „

TRACINGS MOUNTED ON UNION at 4d., and on COTTON at 3d., per square foot.

Drawing Books, Solid Sketch Books, Crayon Papers, and Drawing Materials of every Description.

PURE CUMBERLAND LEAD PENCILS.

Warranted free from grit, and to retain the point.

	s.	d.
The very best Drawing Pencils that can be manufactured, HHHH. HHH. HH. H. HB. F. FS. B. BB. BBB.	per doz. 5	0
Second quality, ditto, French polished, HHH. HH. H. HB. F. FS. B. BB.	„ 2	6
Waterlow's Original Office and Commercial Pencil, French polished	„ 2	6
Second quality, ditto	„ 1	6
Penny Pencils	„ 0	9
School Pencils	„ 0	6
Brookman and Langdon's, Mordan's, or any other Maker's best drawing	„ 6	0

Neat Leather Cases, for sets of the above, 1s. 6d. each.

WATERLOW & SONS'

IMPROVED TRANSPARENT TRACING PAPERS,

Sample Books sent Free, upon application.

Nos.	Inches.	Per quire. s.	d.
2.	30 by 20 Thin	3	0
	30 by 40 Ditto	6	0
	60 by 40 Ditto	13	0
3.	30 by 20 Glazed, thin	4	6
	30 by 40 Ditto, ditto	9	0
4.	30 by 20 Thick	4	0
	30 by 40 Ditto	8	0
	60 by 40 Ditto	17	0
6.	30 by 20 Double Thick	13	0
7.	28 by 20 Vellum Tracing	10	6

LEON'S PATENT FRENCH TRACING PAPERS (No. 1.)

In continuous lengths of 21½ yards, 43 inches wide, at 20s. per piece, or 1s. per yard run, or in sheets of 30 inches by 40 inches, yellow wove, 11s. per quire.

Papier Végétal à calquer, grand aigle, thin (No. 11), thick (No. 12), 28 by 40, per quire, 20s.

The superior texture and transparency of these Papers will be manifest to the artist upon the first trial. They are highly esteemed on the Continent, and have obtained the patronage of the first Engineers of this Country. See Notices of the Press.

PATENT TRACING LINEN.

This article is manufactured in continuous lengths of about 24 yards, and will be found very valuable for permanent tracings. The texture is remarkably fine and transparent.

			s.	d.		£	s.	d.
No. 9.	18 inches wide	per yard	0	8	per piece (24 yards)	0	14	0
	28 ,,	,,	1	0	,,	1	2	0
	36 ,,	,,	1	3	,,	1	6	0

TRACING CLOTH PAPER,

Of any continuous length, without a joint, warranted to take pencil, ink, and colour.
No. 10, 38 inches wide..... per yard 1s. 3d.

WILLIAMSON'S SECTIONAL LINES

FOR THE USE OF SURVEYORS, ARCHITECTS, ENGINEERS, &c.,

PRINTED AND PUBLISHED BY WATERLOW AND SONS.

24 by 15 ..... 24*s.* per quire. 24 by 9 ..... 18*s.* ditto. 12 by 9 ..... 12*s.* ditto.

Figure 24 in. by 15 in, Twenty-fourths
,, 24 in. by 15 in. Twentieths
,, 24 in. by 15 Hor. 1½ in. 20 Ver. 20 (IRISH)
,, 24 in. by 15 in. Sixteenths
,, 24 in. by 15 in. Twelfths
,, 24 in. by 15 in. Tenths
,, 24 in. by 9 in. Tenths
,, 24 in. by 15 in. Eighths and Sixths
,, 24 in. by 15 Hor. Sixths Ver. Eighths
,, 24 in. by 10 in. and 24 in. by 9 in. Twentieths
,, SPAIN 25½ in. by 12 Hor. $\frac{1}{10000}$ Ver. $\frac{1}{500}$
,, FRANCE 25½ by 15½ Millimetre

Figure 12 in. by 9 in. Eighths
,, 12 in. by 9 in. Tenths
,, 12 in. by 9 in. Twelfths
,, 12 in. by 9 in. Sixteenths
,, 12 in. by 9 in. Twentieths
,, 12 in. by 9 in. Twenty-fourths
,, 6 in. by 9 in. Eighths, Tenths & Twelfths
,, 8 in. by 5 in. Twentieths, bound
,, 24 in. by 16 in. 16ths and Thirty-two Parts

For Sketch Books.

Also a 12 inch Circle divided into Half Degrees, and a 10 inch Circle divided into Half Degrees, and the Circles into Sixths to the Centre.

FOR HEALTH OF TOWNS SURVEYS.

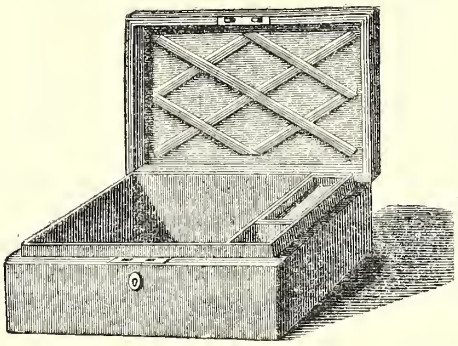
24 by 15 Horizontal Scale 44 feet and Vertical 10 feet=1 inch.
24 by 9 ,, ,, ,, 11 ,, = ,,

MEASURING TAPES.

	s.	d.
66-Feet Patent Metallic Railway Tapes, in Gutta Percha Cases, Folding Brass Handle	10	6
12-Feet Patent Self-Acting Spring Tape Measures, in Brass Case, with Spring Stop	4	6
9-Feet do. do.	4	0
6-Feet do. do.	3	6
3-Feet do. do.	3	0

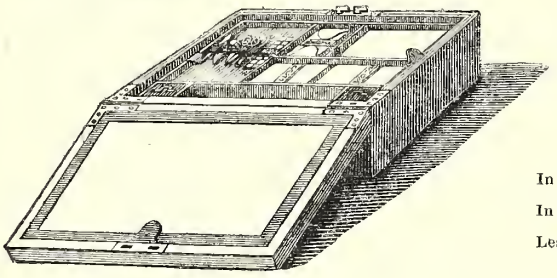
Leather Goods,

Of superior manufacture, fitted with Patent Locks, and of first quality materials.



DESPATCH BOXES FOR PRIVATE PAPERS, &c.

	12-inch	14-inch	16-inch
	£ s. d.	£ s. d.	£ s. d.
Roan Leather, lined paper	1 3 0	1 7 0	1 14 0
Morocco do., lined leather	2 0 0	2 5 0	2 15 0
Russia do. do. do.	2 5 0	2 10 0	3 0 0
Extra for Inkstand, Vestas, Pen Tray, &c.	0 10 0	0 11 0	0 12 0
Leather Covers for Travelling	0 12 0	0 14 0	0 16 0



DESPATCH BOXES, WITH WRITING DESKS,

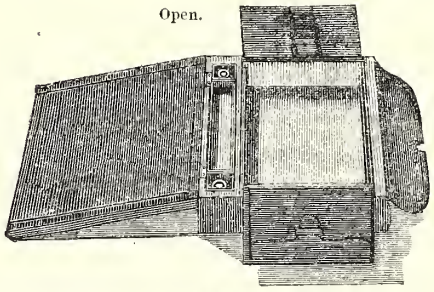
Fitted with every requisite complete.

	12-inch	14-inch	16-inch
	£ s. d.	£ s. d.	£ s. d.
In Morocco	3 10 0	3 16 6	4 4 0
In Russia	3 15 0	4 4 0	5 0 0
Leather covers.	0 12 0	0 14 0	0 16 0

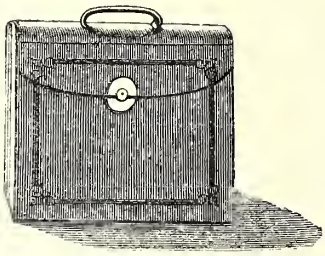
PORTABLE TRAVELLING DESKS OR WRITING CASES,

Fitted with Patent Inkstand and Blotting Books.

Open.

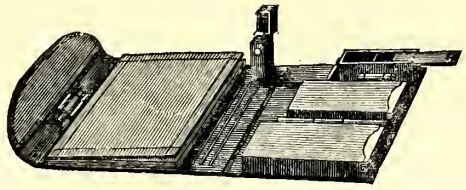


Closed.



	12-inch	14-inch	16-inch
	£ s. d.	£ s. d.	£ s. d.
Imitation Russia, with single desk	0 14 0	0 16 0	0 18 0
Roan do.	0 15 0	0 17 6	1 0 0
Morocco do.	1 10 0	1 16 0	2 0 0
Russia do.	1 16 0	2 0 0	2 5 0

	12-inch	14-inch	16-inch
	£ s. d.	£ s. d.	£ s. d.
Roan, with double desk	1 1 0	1 4 0	1 7 0
Morocco do.	2 2 0	2 6 6	2 12 0
Russia do.	2 5 0	2 11 0	2 16 6
Outside Leather Cover	0 10 6	0 12 6	0 15 0



STUDENTS' NOTE CASES,
or Tourist's Companion,

Containing, in a small compass, all the necessary writing materials for a journey.

	Note Size. £ s. d.	Letter Size. £ s. d.	Foolscap. £ s. d.
No. 1, roan, with Patent Ink, Vestas, &c.	0 9 0	0 18 0	1 5 0
2, do. do. lined leather	0 12 0	1 3 0	2 0 0
3, best Morocco ditto, lined fancy paper	0 15 0	1 5 0	2 5 0
4, do. do. lined leather	1 0 0	1 10 0	2 15 0
5, red or green Russia ditto	1 2 0	1 12 0	2 18 6
6, do. do. lined fancy silk	1 12 6	2 2 0	—

SOUFFLETS.

FITTED WITH PATENT INKSTAND, VESTAS, ETC.	12-inch. £ s. d.	14-inch. £ s. d.	16-inch. £ s. d.
Imitation Russia	0 18 0	1 1 0	1 4 0
Morocco	1 10 0	1 13 0	1 16 0
Russia	1 12 0	1 15 6	2 0 0

SERMON CASES.

OF LIMP LEATHER, WITH PRAYERS AND POCKETS.	Roan. £ s. d.	Morocco. £ s. d.	Velvet. £ s. d.
Note Size	0 2 6	0 3 0	0 4 6
Small Letter	0 3 0	0 4 0	0 5 0
Letter Size	0 4 0	0 5 0	0 6 6
Large ditto	0 4 6	0 6 0	0 7 0

Sermon Paper from 4s. per ream, Scribbling Foolscap from 7s. per ream.

BLOTTING CASES AND PADS.

	Letter Size. £ s. d.	Foolscap. £ s. d.	Demy. £ s. d.	Medium. £ s. d.
Solid Blotting Pads	0 1 0	0 1 9	0 2 0	0 2 6
French Japanned Leather	0 1 3	0 1 6	0 2 0	—
Roan Blotting Case	0 3 0	0 3 6	0 4 6	0 5 0
Ditto with Lock	0 4 6	0 5 0	0 6 6	0 7 0

BANKERS' BILL CASES.

	Black Roan Leather. s. d.	Black Spanish Leather. s. d.
6 inch	1 6	4 6
7 ,,	1 9	5 0
8 ,,	2 0	6 0
9 ,,	2 3	7 0
10 ,,	2 6	7 6

SOLICITORS' BRIEF AND DRAFT CASES.

In black roan, draft size..... 3s.; brief size..... 3s. 6d.

PASSPORT CASES.

	s. d.	
Roan leather, with tongue	1 6	each.
Morocco ditto, lettered	4 6	,,
Ditto ditto ditto, lined silk	6 0	,,

CARD CASES.

In Morocco and Russia leather ..... 1s., 1s. 3d., and 1s. 6d. each.
Ditto ditto round corners ..... 1s. 4d., 1s. 9d., and 2s. each.

SUPERIOR WALLETS,

TO FASTEN WITH SPRING BAND AND FRENCH HOOK.

	4 inch.	4½-in.	5-inch.	5½-in.	6-inch.	6½-in.	7-inch.	7½-in.	8-inch.
	s. d.	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*
Morocco, lined leather.....	3 0	3 6	3 9	4 0	4 3	4 9	5 3	5 9	6 0
Ditto, lined silk.....	6 0	6 9	7 6	8 3	9 0	9 9	10 6	11 3	12 0
Russia, lined leather.....	3 3	3 9	4 0	4 3	4 6	5 0	5 6	6 0	6 3
Ditto, lined silk.....	6 0	6 9	7 6	8 3	9 0	9 9	10 6	11 3	12 0
Soft Flexible Morocco Wallets, with even edges, four pockets, lined silk, forming note and card-case	5 0	5 9	6 3	7 0	7 3	8 0	8 9	9 6	10 3

PATENT POCKET BOOKS,

Of Turkey Morocco, or Russia, with Self-closing Pockets, and Elastic Fastening.—4-inch, 6s.; 4½ inch, 6s. 9d.; 5-inch, 7s. 6d.; 5½-inch, 8s. 3d.; 6-inch, 9s.

METALLIC POCKET BOOKS,

In Limp Leather, to fasten with Elastic Band, containing four useful Pockets, and leaves to slip under ribbon.

No. 11, 4¾ by 2⅞, 1s. 9d. each. | No. 13, by 3¼, 2s. 6d. each.
No. 12, 5⅜ by 3½, 2s. 0d. „ | No. 14, 7⅛ by 3½, 3s. 0d. „

Loose books may be had to fit all the above sizes.

THE ALPHABETICAL EXPANDING GUSSET CASE,

For the use of Magistrates, County Courts, Bankers, Solicitors &c., with twenty-four Pockets for the alphabetical arrangement of papers, fitted with strap and buckle, and patent lock. Also for Merchants, with divisions for Bills of Exchange, &c.

PORTFOLIOS,

Half bound, with leather backs and corners, cloth sides, and silk strings.

15½ by 11, 3s. 0d., with flaps, 4s. 6d. | 24 by 19, 7s. 6d., with flaps, 10s. 0d.
17 by 14, 4s. 6d., „ 6s. 0d. | 27 by 21, 9s. 0d., „ 11s. 6d.
21 by 16, 6s. 0d., „ 8s. 0d. | 29 by 21, 15s. 6d., „ 20s. 0d.
23 by 18, 7s. 6d., „ 10s. 0d. | 34 by 23, 18s. 0d., „ 23s. 0d.

40 by 28, 25s., with flaps, 31s.

Morocco Key Boxes, lined velvet, with spring, lock, and two keys, 15s. each.

Neat Leather Case for ink, pens, vesta lights, &c., 10s., 15s., 20s. each.

Patent Portable Inkstands, for travelling, covered morocco, 5s. each.

Ditto ditto ditto for the waistcoat pocket, 3s. 6d. each.

Ditto ditto ditto ditto for red and black ink, 5s. each.

Safety Vesta Light Boxes for travelling, 5s. each.

Letter Springs, covered morocco, from 1s. 0d. each.

Leather Straps for Solicitors' papers, &c., 16 inch, 5s. per dozen.

Ditto ditto 36 „ 7s. „

SEALING WAX AND WAFERS.

	s.	d.	
London Extra Super Wax, finest quality, red or black, in pound boxes ...	5	0	per lb.
Superfine ditto	3	0	,,
Parcel ditto	2	0	,,
India Wax for hot climates, finest quality	6	0	,,
Fancy Wax, finest quality, assorted colours ... ... 6s. and	8	0	,,
Best white perfumed Wax, for weddings	8	6	,,
Wafers, red, white, black, or best mixed	3	0	,,
Ditto, patent ditto	4	0	,,

Ditto, vermilion chequered for affixing to paper deeds, &c., and royal crown for coroners' inquisitions, per box, 6d.; per dozen boxes, 4s.

Red Signet Wafers for corporate seals, policies, bonds, &c., &c., of all sizes to order.

TAPES, FERRETS, &c.

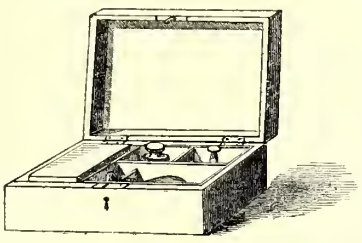
	s.	d.
Red Tape, best linen, 16, narrow ... ... per dozen	1	3
Do. do. 24, middle ... ... ,,	1	9
Do. do. 32, broad ... ... ,,	2	6
Silk Ferret, green, broad ... ... per piece	5	0
Do. do. narrow ... ... ,,	3	0
Cotton, do. broad ... ... ,,	1	6
Do. do. narrow ... ... ,,	1	0
China Grass, green and red ... ... ,,	1	6
Union Cord, do. do. ... ... per reel	1	0
Green Silk Tags, for files, and Bankruptcy Proceedings, 18 inch, per dozen	3	0
Do. do. do. 24 ,,	4	0
Do. do. do. 36 ,,	5	0

OFFICE CUTLERY.

	s.	d.
Desk Knives and Erasers, cocoa handles ... ... each	1	0
Ditto ditto ivory ditto ... ... ,,	2	0
Pen Machines ebony ditto ... ... ,,	4	0
Ditto ivory ditto ... ... ,,	6	6
Pocket Penknives (various), one blade ... ... each 1s. and	1	6
Ditto ditto two blades ... ... ,, 1s. 6d. and	2	0
Ditto ditto superior ditto ... ... ,, 2s. 6d. and	3	6
Parchment Knives ... ... each	0	6

Office Paper Scissors, 6-inch, 2s.; 7½-inch, 2s. 6d.; 9-inch, 3s.

Pocket Scissors, 1s.; Nail ditto, 1s.; Cabinet ditto, 1s. 6d. Runners, box handles, 2s.
Seal Chisels, box handles, 1s. 6d. Bodkins, with or without eyes, 1s.
Office Hones, in mahogany case, 3s. 6d.



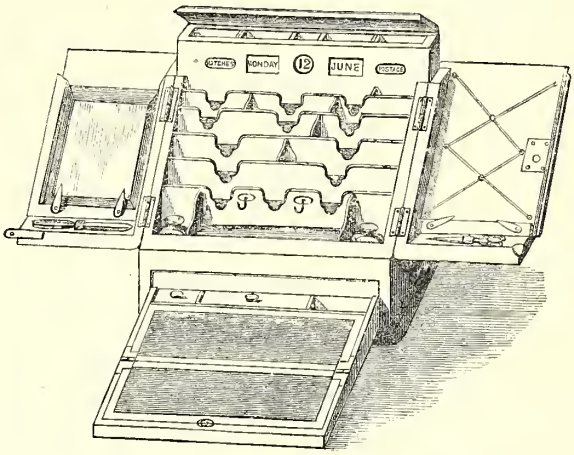
IMPROVED PATENT INDORSEMENT BOXES,

For the better use of Brass Stamps.

	£	s.	d.
Supplied with Liquid Black, Red, or Blue Ink, Dampers, Cleaning Brushes, &c. ...	0	11	0
Ink for replenishing, per bottle.....	0	2	6

Brass Stamps engraved at per letter. Designs made free of charge.

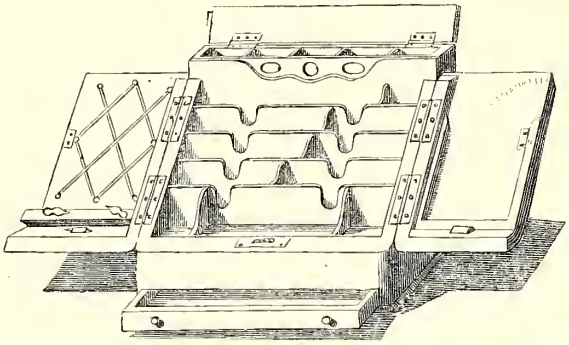
STATIONERY CABINETS AND CASES IN POLISHED MAHOGANY, OAK, AND WALNUT.



☞ The dimensions given represent the length, width, and height respectively. The prices quoted for the fittings include every possible requisite for the writing table, and are of the very best description. They may be varied at the option of the purchaser, and any article can be replaced when required.

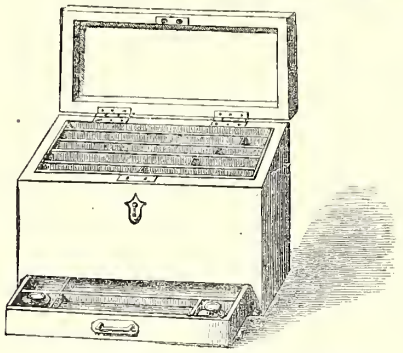
No. 1.—Cabinet, with Desk in front, folding up as a Drawer, with a patent lock and two keys.

Inches.	Fitted complete. £ s. d.	Case only. £ s. d.
17 by 11 by 16½	7 0 0	5 5 0
14 by 10 by 14½	5 15 0	4 10 0
13 by 10 by 12	4 17 6	3 15 0



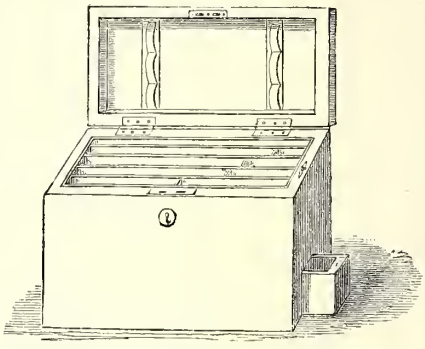
No. 2.—Cabinet, with Drawer in front.

Inches.	Fitted complete. £ s. d.	Case only. £ s. d.
17 by 11 by 14½	5 10 0	3 15 6
14 by 10 by 13	4 10 0	3 3 0
13 by 10 by 10½	3 17 6	2 15 0



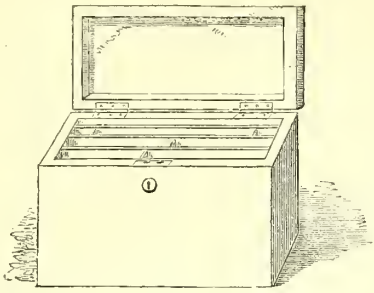
No. 3.—Case, with drawer in front.

Inches.	Fitted complete. £ s. d.	Case only. £ s. d.
15 by 8 by 10	3 3 0	1 18 0
12 by 8 by 9	2 12 6	1 10 0
11 by 6 by 7	1 15 0	1 3 0



No. 4.—Case, with Drawer at side.

Inches.	Fitted complete. £ s. d.	Case only. £ s. d.
15 by 8½ by 10.....	2 15 0	1 13 0
12 by 6½ by 9½ ...	2 5 0	1 5 0
10½ by 5½ by 6 ...	1 8 0	0 18 0



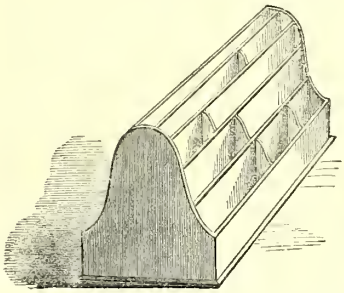
STATIONERY CABINETS AND OPEN PAPER CASES.

No. 5 Case.	Fitted Complete.	Case only.
11 by 6 by 8	£1 10 0	£0 18 0
9 by 4¼ by 5½	0 14 0	0 9 0

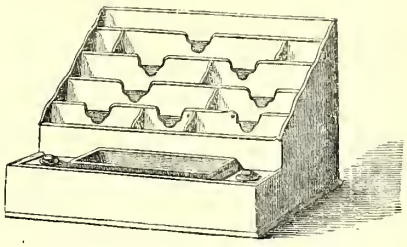
No. 6. Case for Envelopes and Paper, extra finish, lined silk, circular head, 11 by 7 by 6—£1 1 0, fittings, 6s. 6d.

No. 7. Case for Envelopes only, 9½ by 4½ by 4¾—8s., fittings 2s. 6d.

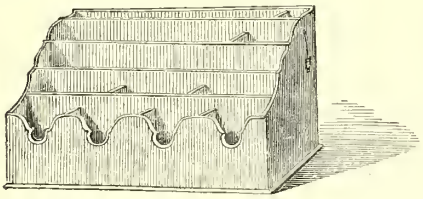
No. 8. Case ditto, upright, 4 by 6½ by 3¾—5s., fittings 1s.



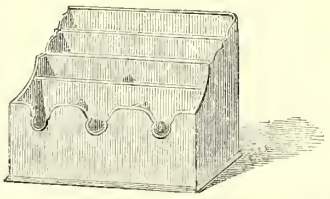
No. 9. Open Paper Case, double, 15 by 13 by 11—Case, £1 1s., fittings £1 1s.



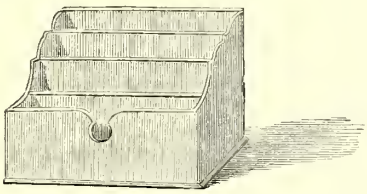
No. 10. Open Paper Case, with Tray, 14 by 9 by 10—Case £1 4s., fittings £1 1s.



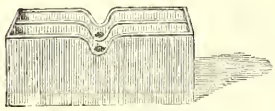
No. 11. 15 by 5½ by 8¼—Case only, 12s. 6d.



No. 12. 11 by 4½ by 8—Case only, 8s.



No. 13. 11 by 4½ by 8—Case only, 6s. 6d.



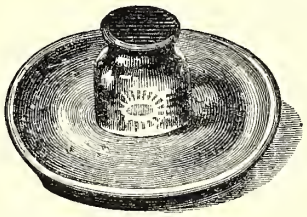
No. 14. BILL CASE.

Two divisions	3s.	0d.
Three ditto	4s.	0d.

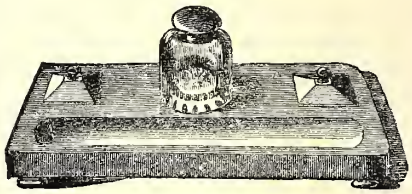
Cabinets for every description of the new Bill, Receipt, and Postage Stamps, with appropriate Spaces.

INKSTANDS.

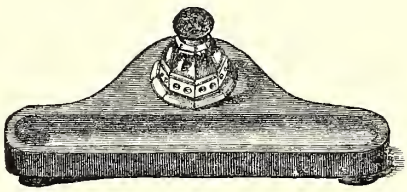
A great variety of Glass, Metal, Ebony, Walnut, and Black Wood Double and Single Inkstands always in stock, at various prices.



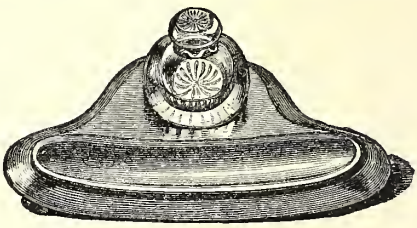
No. 12.
Black Wood, 5½ inches diameter ..... 1s.
Ditto 8½ ditto ..... 2s.



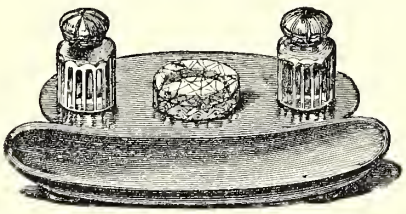
No. 18.
Black Wood, 10 by 5, moulded glass 5s. 6d.
Ditto 11 by 6, ditto 7s.



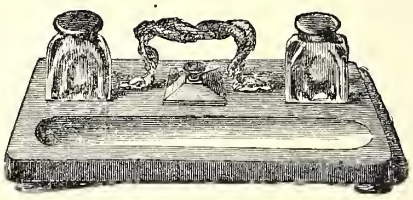
No. 23.
Black Wood, 12 by 6¼, moulded glass 5s.
Ditto 13 by 7½, ditto 7s.



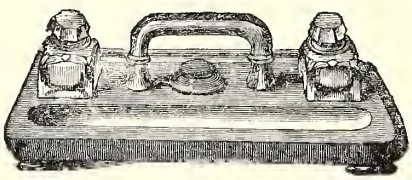
No. 28.
Walnut, 12 by 8, cut glass ..... 16s.
Ditto 13 by 9½, handsome ditto ..... 23s.



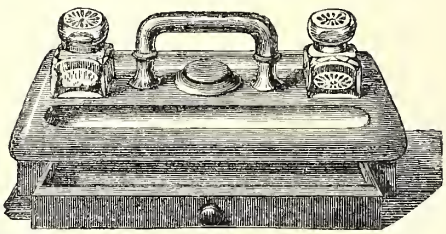
No. 34.
Walnut, 13½ by 9, handsome cut glass and Wafer Tray .... 28s.



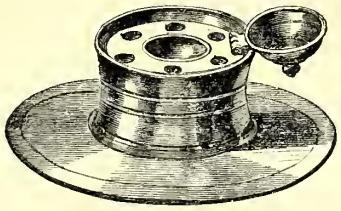
No. 40.
Black Wood, 10 by 5, moulded glass 5s. 6d.
Ditto 11 by 6, ditto 8s.
Ditto 13 by 6½, ditto 11s.
Ditto ditto cut glass 15s.



No. 45.
Black Wood, 11 by 6, moulded glass 8s. 6d.
Ditto 12 by 8, ditto 11s., 16s.
Ditto ditto cut glass ..... 21s.



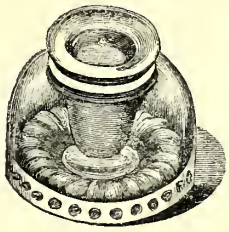
No. 56.
Black Wood, 10½ by 6, moulded glass ... 8s.
Ditto 12 by 8, ditto 12s., 16s.
Ditto ditto cut glass ..... 20s.
Ditto 14 by 9½, ditto ..... 25s.



METAL INKSTANDS.

Loggerheads—	Small. s. d.	Middle. s. d.	Large s. d.
Plain	1 9	2 6	3 6
With cap	2 6	3 0	4 0
With cap and plate ...	4 6	5 6	6 6

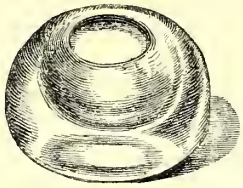
GLASS INKSTANDS.



The Glass Cone Inkstand is the most economical ever offered to the public. It presents so small a surface of ink to the atmosphere, that no evaporation takes place, and the ink is always fresh to the last.

1¾ inch..... 1s. 0d. each.	2¾ inch ..... 2s. 0d. each.
2 ,, ... 1s. 3d. ,,	3 ,, ... 2s. 3d. ,,
2¼ ,, ... 1s. 6d. ,,	3¼ ,, ... 2s. 6d. ,,
2½ ,, ... 1s. 9d. ,,	3½ ,, ... 2s. 9d. ,,

Any of the above fitted on Circular Trays at 1*s.*, 1*s.* 3*d.*, 1*s.* 6*d.*, *and* 2*s. extra.*



SOLID GLASS DOME INKS.

Extra strong for the Banker's counter or Library table.

3 inch ..... 2s. each	4 inch..... 4s. each.
3½ ,, ... 3s. ,,	4½ ,, ... 5s. ,,

Square Desk Inks, screw tops, 1½ inch, 1s. 3d.; 1¾, 1s. 6d.; 1⅞, 1s. 9d.; 2 inch, 3s.

					s.	d.	
Square bronze hinge-top Inks				2	inch	1	6
Circular	ditto	ditto, in white and coloured glass,		3¼	,,	2	0
Hexagon	ditto	ditto	ditto	3½	,,	3	0

Fountain and Excise Inks, Ink Wells, &c., &e.

PENHOLDERS.

	s.	d.	
The Patent Expanding Penholders, to fit any pen	1	0	per dozen.
Ditto ditto ditto with pencil.....	2	0	,,
Ebony, Lancewood, and Rosewood Holders, with or without slides.....	3	6	,,
Ivory and German Silver Holders ditto ditto	5	6	,,
Sterling Silver Penholders, with Ebony handle..... . .. . 1s. 6d., 2s., and	2	6	each
Ditto ditto with Ivory ditto ....2s., 2s. 6d., and	3	6	,,
Ditto ditto Red Ivory for Red Ink.....	2	0	,,

WRITING INKS.

Black Ink is of so much importance to the commercial world, that great care should be taken in its selection. Its essential properties are fluidity in writing, depth of colour in drying, and unchangeability with age, which qualities the Ink manfactured by Waterlow and Sons will be found to possess in an eminent degree. It is equally adapted for Gold, Steel, or Quill Pens.

In Quart bottles, at	2s. 0d.	each	21s. 0d. per dozen.
In Pint bottles, at.....	1s. 3d.	,, ...	12s. 6d. ,,
In Half-pint bottles, at ..	9d.	,, ...	7s. 6d. ,,
Small bottles, at	6d.	,, ...	4s. 6d. ,,

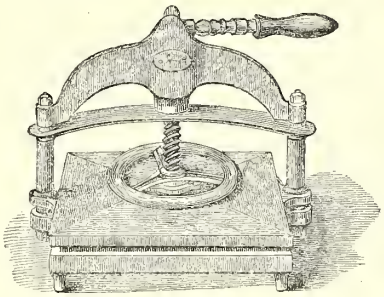
Gallon Bottles, in Baskets, for the Country, 6*s. 6d. each.*

Red and Blue Inks, in bottles. 3s., 2s., 1s., and 6d. each, Copying Ink, warranted to give perfect copies, quarts, 3s.; pints, 2s; and in gallon bottles, 10s., or packed in baskets for the country, 12s.

Ink Powders, Black, per dozen, 3s. 6d. Red ditto, 4s.

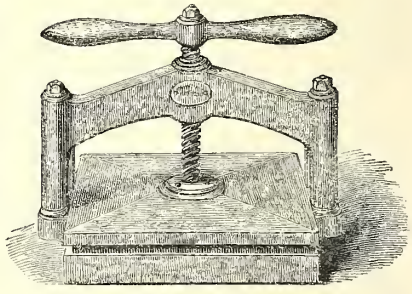
PATENT LETTER-COPYING PRESSES.

THE LEVER PATTERN.



Large Quarto,	9 by 11½...	£1	12 6
Foolscap Folio,	9 „ 13 ...	2	2 0

THE SCREW PATTERN.

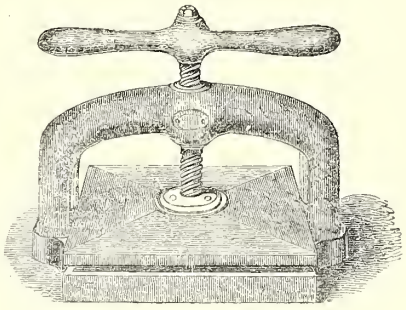


Large Quarto,	10 by 12...	£2	10 0
Foolscap Folio,	10 „ 15...	3	3 0
Post Folio,	12 „ 18...	4	4 0
Post Open Sheet,	24 „ 18...	7	0 0

These Machines, *although lower in price than those of any other manufacturer*, are all *warranted*, and will be immediately exchanged, or the money returned, if any fault is discovered.

FIRST-QUALITY SCREW.

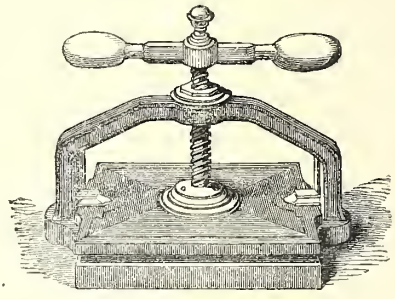
ROUND BEAM.



Large Quarto,	10 by 12...	£3	3 0
Foolscap Folio,	10 „ 15...	4	10 0
Post Folio,	12 „ 18...	5	15 0
Post Open Sheet,	24 „ 18...	9	0 0

FIRST-QUALITY SCREW.

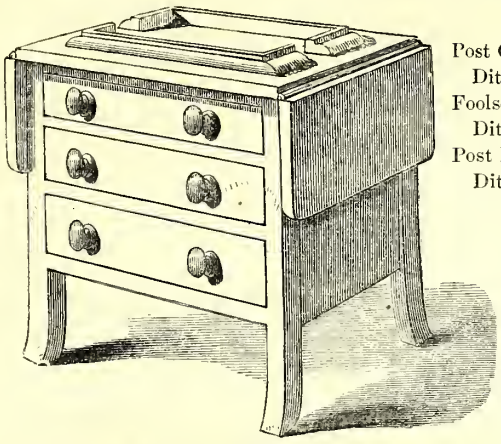
WROUGHT-IRON BEAM.



Large Quarto,	10 by 12...	£3	15 0
Foolscap Folio,	10 „ 15...	5	5 0
Post Folio,	12 „ 18...	6	10 0

STANDS FOR COPYING PRESSES,

OF POLISHED MAHOGANY.



	With two Drawers. £	s.	d.	With three Drawers. £	s.	d.
Post Quarto ...	1	10	0	2	2	0
Ditto with flaps ...	2	5	0	2	12	0
Foolscap Folio ...	2	0	0	2	10	0
Ditto with flaps ...	2	12	0	3	0	0
Post Folio ...	2	10	0	3	0	0
Ditto with flaps ...	3	5	0	3	12	6

ONE-DRAWER STANDS FOR QUARTO PRESSES, £1. 5*s*.

	£	s.	d.
Post Quarto Damping Box ...	0	11	0
Foolscap Folio ditto ...	0	12	0
Post Folio ditto ...	0	14	0

Damping brush, oil and drying sheets, for quarto presses, 3s. 6d.; foolscap ditto, 5s.; post folio ditto, 6s.

LETTER COPYING BOOKS,

OF FIRST QUALITY, BLUE OR CREAM WOVE COPYING PAPER.

TYPE PAGED AND INDEXED.

Quarter Bound.	Each. s.	d.	Per Dozen. £	s.	d.	Half Bound.	Each. s.	d.	Per Dozen. £	s.	d.
300 Leaves quarto...	6	0	3	3	0	300 Leaves quarto ...	8	0	4	4	0
500 do. do. ...	8	0	4	2	0	500 do. do. ...	10	0	5	2	0
750 do. do. ..	10	0	5	5	0	750 do. do. ...	13	0	6	18	0
1,000 do. do. ...	12	0	6	3	0	1,000 do. do. ...	15	0	7	13	0
500 do. Foolscap.	9	0	4	18	0	500 do. Foolscap	12	0	6	6	0
750 do. do. ..	11	6	6	0	0	750 do. do. ...	15	0	7	12	0
1,000 do. do. ...	14	0	7	7	0	1,000 do. do. ...	18	0	9	9	0

LETTER-COPYING BOOKS, SECOND QUALITY.

500 Leaves quarto...	5	0	2	11	0	500 Leaves quarto ...	7	0	3	12	0
1,000 do. do. ...	9	0	4	12	0	1,000 do. do. ...	11	0	5	13	0

COPYING PAPER.

BEST ENGLISH MAKE.	s.	d.	IMPROVED FOREIGN MAKE.	s.	d.
Two Reams for	16	0	Two Reams for	17	0
Five Reams for	35	0	Five Reams for	37	0
Ten Reams for	60	0	Ten Reams for	65	0

WATERLOW'S INSTANTANEOUS COMMUNICATIVE INK,

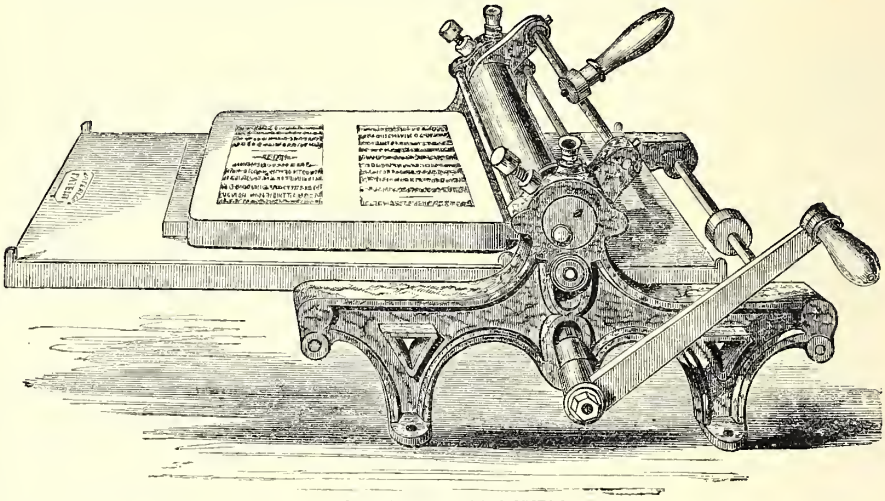
FOR COPYING LETTERS.

This only *really fluid* Copying Ink, is *used* in all the *Principal Railway and Commercial Establishments in London*, and is universally admitted the best yet produced.

Per PINT, 2s. Per QUART, 3s. Per DOZEN QUARTS, 30s. Per GALLON, 10s.
Per HALF-GALLON, packed for the Country, 6s. 6d. Per GALLON, do. do., 12s.

UNDER THE IMMEDIATE PATRONAGE OF

THE ADMIRALTY, HER MAJESTY'S STATIONERY OFFICE, THE BOARD OF TRADE, DEPARTMENT OF PRACTICAL ART, &c.



WATERLOW'S

PATENT IMPROVED AUTOGRAPHIC PRESS,

OR PORTABLE

PRINTING MACHINE,

FOR THE COUNTING-HOUSE, OFFICE, OR LIBRARY,

BY MEANS OF WHICH

EVERY PERSON MAY BECOME HIS OWN PRINTER.

The process is simple, and thousands of copies may be produced from any writing, drawing, piece of music, or design (previously made on paper), and, the requisite number of copies being finished, the subject may be effaced, and another substituted.

Nearly One Thousand of these Presses have now been sold, and are being successfully used in all Her Majesty's Government Offices, Public and Private Schools, Railway Companies, Assurance Offices, and also by the most influential Bankers, Merchants, Clergymen, &c., in the United Kingdom, the following being some of those who have already patronised this extremely useful invention:—

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South Eastern Railway.
South Western Railway.
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Chester and Holyhead Railway.
Bristol and Exeter Railway.
Manchester and Sheffield Railway.
Oxford, Worcester, and Wolverhampton Railway.
Shropshire Union Railway.
Vale of Neath Railway.
South Devon Railway.
Scottish Midland Railway.
North British Railway.
Great Southern and Western Railway of Ireland.
Western Railway of France.
London and County Bank.
National Bank of Ireland.
North of Scotland Banking Company.
Office of Inland Revenue.
Electric Telegraph Company.
Oriental Bank.
Saddleworth Banking Company.
Colonial Bank.
London Missionary Society.
Baptist Missionary Society.
Peace Society.
Medical Society.
National Freehold Land Society.
Conservative Land Society.
Rent Guarantee Society.
Railway Passengers' Assurance.
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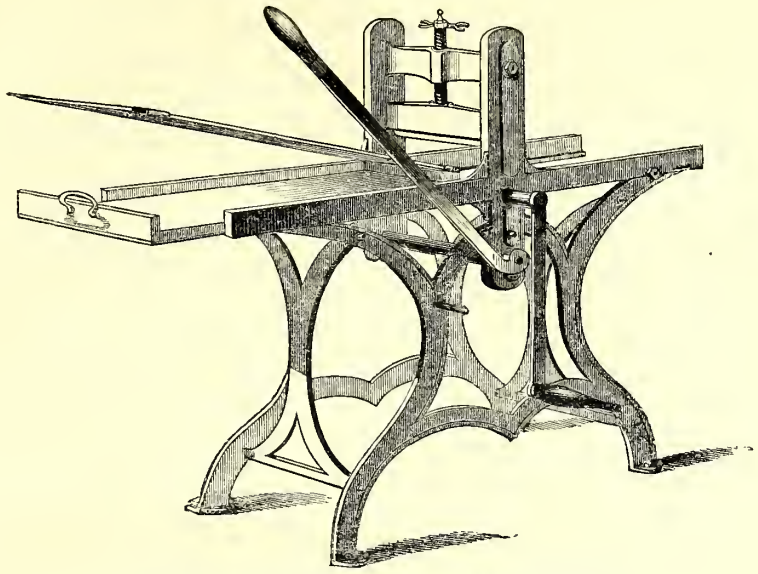
	Complete.	Mahogany Stands.
To Print a Subject 11 by 9	**£7 7 0**	**£2 5 0**
Ditto 16½ „ 10½	**8 8 0**	**2 7 6**
Ditto 18 „ 13½	**9 9 0**	**2 15 0**

PATENTEES—WATERLOW AND SONS, 65 TO 68, LONDON WALL, LONDON.

FROM THE CITY ARTICLE OF "THE TIMES."—A very useful invention has been patented by Messrs. WATERLOW and SONS, which will be productive of great convenience to Banking Establishments and other concerns requiring to send out circulars with despatch. It is called the "Autographic Press," and a letter written on prepared paper, with which it is furnished, can be transferred, by a short process, to a piece of stone, from which any number of copies may afterwards be taken on common paper and by ordinary pressure. In the colonies and other places, where facilities for such operations are now scarce, and in all cases where the documents to be copied are of a confidential nature, it is likely to prove particularly valuable.

24 and 25, Birchin Lane, Cornhill, 65 to 68, London Wall,



LITHOGRAPHIC PRESSES.

Waterlow & Sons' lengthened experience of Lithographic Presses, and the number they have of the above construction at work in their own offices, induce them to recommend them as being undoubtedly the *best* and *cheapest* that are manufactured; they are constructed of the best material, and, being put together with the greatest care, may be worked for many years without any cost for repairs.

12 by 18 inches	£7	10	0	22 by 33 inches,	£14	0	0
14 by 21 „	8	8	0	24 by 36 „ with wheel and pinion	18	10	0
16 by 24 „	10	10	0	26 by 39 „ ditto and stop	23	0	0
18 by 27 „	11	5	0	30 by 45 „ ditto ditto	26	10	0
20 by 30 „	12	12	0	34 by 51 „ ditto ditto	35	0	0

Planed Iron Inking Table or Slab, 21s. and 25s. each.

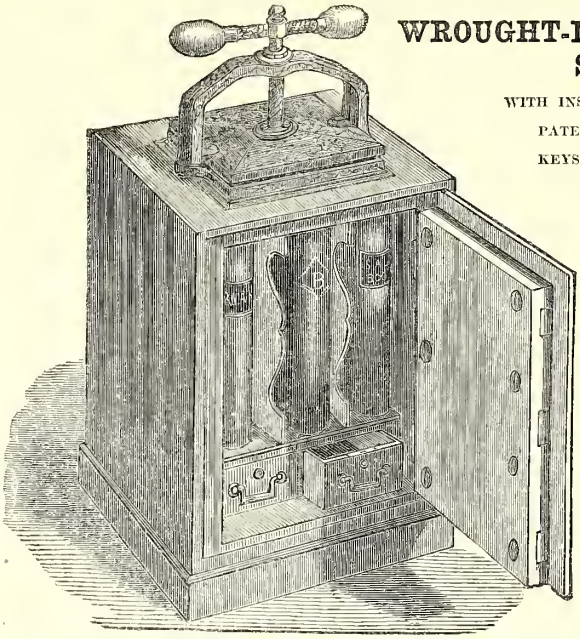
LITHOGRAPHIC MATERIALS,

Carefully selected and prepared, of the purest quality.

Best German stones, per lb. 2d.; do. selected and large sizes, per lb. 3d.
Transfer paper, post, 20 by 16, per qr., 5s.; do., double foolscap, per qr., 6s.; do., double crown for tracing, per qr., 12s.; do., double foolscap, for chalk drawings, per quire, 18s.
Transfer writing ink in tin bottles, per half pint, 10s.; do., per pint, 15s.; do. in solid sticks at 1s. 6d., or per lb. 16s.
Stone ink, per stick, 3s.; per lb., 30s.
Tint ink, per stick, 3s.
Indian ink, per stick, 1s., 2s. 6d., & 5s.
Ink saucers, per dozen, 1s. 6d.
Pens, the Autographic, per dozen, carded, 1s.; per gross, 6s.
Ditto, the extra fine for Mapping (white), per dozen, carded, 1s. 6d.; per gross, 12s. 6d.
Ditto, the Imitation Crow Quill, per dozen, carded, 1s.; per gross, 8s.
Ribbon steel for pens, per sq. inch, 6d.
Scissors, for cutting same, per pair, 3s. 6d.
Holders for same, per dozen, 2s.
Ruling pens, for stone or paper, ea. 5s.
Bow pens, for drawing circles, &c., on ditto ditto, each 12s.
Tracing paper, 30 by 20, per quire, 3s.; 30 by 40, ditto, 6s.
Retracing paper, 30 by 20, red and black, per quire, 8s.
India paper, per quire, 6s.; ditto, prepared, per quire, 12s.
Drawing Pins, 1s. & 2s. 6d. per doz.
Tracing points each 6d.; holders for same, 1s.
Chalks, 1, 2, and 3, per dozen, 1s.
Chalk holders, ditto, 1s. 6d.
Porte crayons, each 6d.
Brushes, wide and flat badger hair, each 6d.; camel ditto, 1s. 6d.
Stone brushes, each 6d.
Scrapers, each 1s. 6d.
Gravers, each 1s.
Diamond points, each 10s. 6d.
Register needles, per pair, 1s.
Hones, in mahogany case, each 3s.
Printing ink, per lb. 10s.; do. thick for drawings, per lb. 12s.
Varnish, in tin bottles, per pint, 3s. 6d.; ditto, per quart, 6s.
Gum, in bottle and basket, per qt., 4s.; ditto, per gallon, 12s.
Etching preparation, do., do., 5s.; do., per gallon, 18s.
Spirits of turpentine, in bottles, 1s.
Nitric acid, in bottles, 1s.
Printing rollers, 11 inch, 12s.; ditto, 12 inch, 13s.
Extra, if for chalk, colour, or engraving, 1s. each.
Tinting ink, per lb., 16s.
Retransfer ditto, per lb., 18s.
Preparation for zinc, per pint, 3s.; do., do., per quart, 5s.
Tympan leathers, square foot, 3s.
Tympan boards, 1s. to 4s. each.
Boxwood scrapers, 2d. per inch.
Pallette knives, 1s., 1s. 6d., and 2s.
Mullers, each 2s.
Graining sand, per gallon, 4s.
Grinding ditto, per gallon, 2s.
Graining sieves, each 3s. 6d. to 6s.
Stone files, each 3s.
Assorted polishing pumice, per lb. 6d.
Do. snake stone slips, each 1s. to 4s.
Damping cloths, each 6d. to 1s.
Sponges, per lb., 10s. to 30s.
Set-off paper, 30 by 20, per ream, 8s.

Just Published, with 10 Plates, Price 5s.

EVERY MAN HIS OWN PRINTER; or, Lithography Made Easy: being an Essay upon Lithography in all its branches, showing more particularly the advantages of the Patent Autographic Press. Groombridge and Sons, 5, Paternoster Row; and Waterlow and Sons, 65 to 68, London Wall, London.



WROUGHT-IRON FIREPROOF SAFES,

WITH INSIDE DRAWERS AND PARTITIONS, PATENT RELIANCE LOCKS AND TWO KEYS TO EACH.

26	by 20	by 20	...	£12 12 0
30	,, 22	,, 22	...	15 15 0
33	,, 24	,, 24	...	18 18 0
36	,, 26	,, 24	...	21 10 0

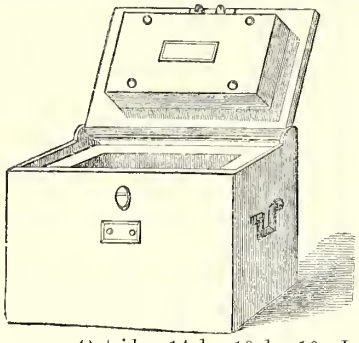
IF WITH WROUGHT-IRON BEAM, FIRST QUALITY COPYING PRESS, FITTED ON TOP.

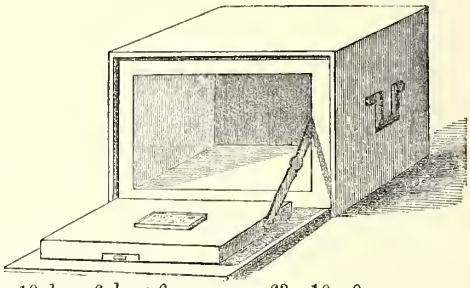
26	by 20	by 20	...	£16 7 0
30	,, 22	,, 22	...	19 10 0
33	,, 24	,, 24	...	22 13 0
36	,, 26	,, 24	...	26 15 0

IRON DOORS FOR STRONG ROOMS AND PARTY WALLS.

WROUGHT-IRON FIREPROOF DEED OR PLATE BOXES,

With ordinary Lids or Fall-down Fronts, fitted with Patent Reliance Locks and 2 Keys.

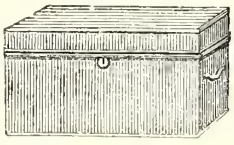




Outside—	14	by 10	by 10	Inside—	10	by 6	by 6.....	£3	10 0
,,	18	,, 14	,, 14	,,	14	,, 10	,, 10.....	4	10 0
,,	22	,, 17	,, 17	,,	17	,, 12	,, 12.....	6	10 0
,,	26	,, 20	,, 20	,,	21	,, 15	,, 15.....	8	15 0

JAPANNED TIN DEED BOXES,

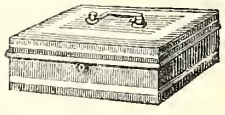
With ordinary Lids or Fall-down Fronts.



	With Tumbler Locks.			Extra strong, and Patent Reliance Locks.		
14 by 10 by 10...	£0	13	0	..... £1	5	0
18 ,, 12½ ,, 14...	0	18	0	 1	13	0
24 ,, 16 ,, 17...	1	4	0	 2	2	0

CASH BOXES,

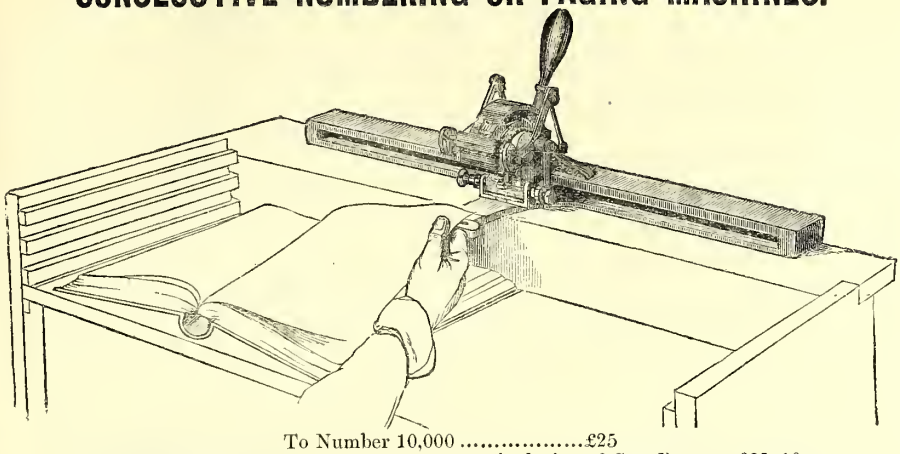
Japanned and Gilt, with divisions for Notes, Gold, Silver and Copper.



	With Tumbler Locks.			Extra strong, and Patent Reliance Locks.		
8½ by 5½ by 3½...	£0	9	0	..... £1	1	0
10 ,, 6 ,, 4 ...	0	12	0	 1	5	0
12 ,, 7 ,, 5 ...	0	15	0	 1	9	0

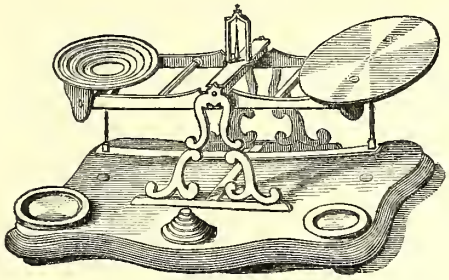
IMPROVED

CONSECUTIVE NUMBERING OR PAGING MACHINES.



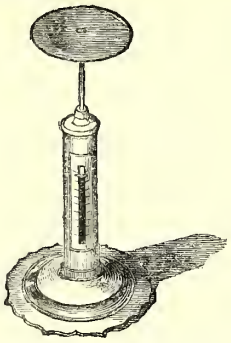
To Number 10,000 .....£25
To Number 100,000 (with various Changes, inclusive of Stand).....£32 10s.
Portable Machines for Merchants' Counting Houses and Banks, each.....£12 12s.

POSTAGE SCALES AND BALANCES.

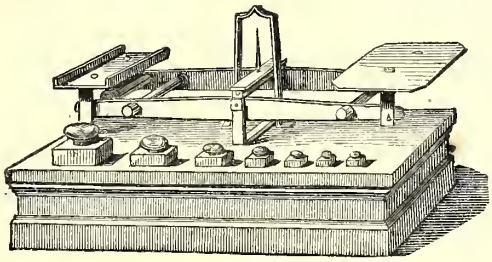


SKELETON BALANCE.

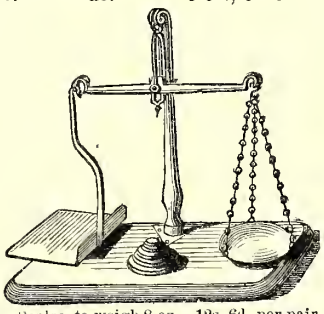
To weigh 8 oz. ...	£0	16	0	Plain plinth,	12s.
Do. 16 oz. ...	1	0	0	,,	15s.
Do. 2 lbs. ...	1	15	0	,,	30s.



Spring Pillar Balances, 4 oz., 4s. 6d.
Do. do. 8 oz., 6 0

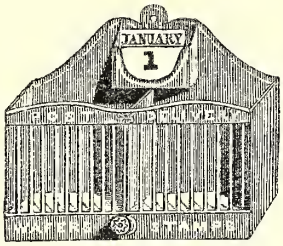


Improved Balances, to weigh 8 oz.....	£0	15	0
Do. do. 16 oz.....	0	18	0
Ditto, for Deeds and Parcels, to weigh 2lbs.	1	12	0



Beam Scales, to weigh 8 oz. 12s. 6d. per pair.
Do. do. 16 oz. 15s. 0d. ,,
Do. do. 2 lbs. 18s. 0d. ,,

LETTER BALANCES FOR INDIA, WITH TOLA WEIGHTS.
SOVEREIGN SCALES, WITH THE ROYAL MINT WEIGHTS.

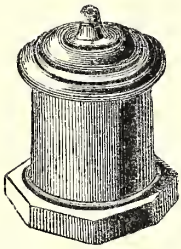


Letter Cages,

	s.	d.
2 divisions, with drawer and date box, each	7	6
Do. do., without drawer and date box	4	0
3 divisions ditto ditto	5	0

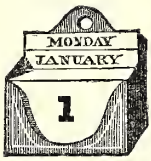
Diurnal Registers.

3s., 4s. 6d., Large size ditto, for Board Rooms, &c., 10s.



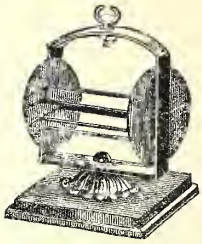
String Boxes,

¼ lb., 2s.; ½ lb., 3s.; and 1 lb., 5s. 6d.



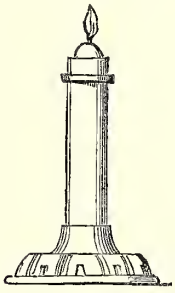
Date Boxes,

1s. & 2s. Large size do. for board rooms, &c., 7s. 6d.

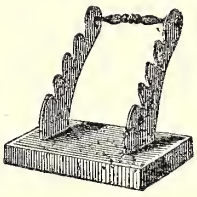


String or Tape Winders,

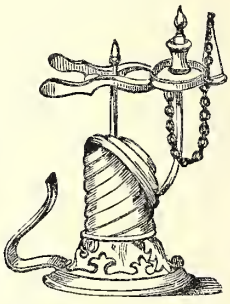
With fixed knife, 2 sizes, 5s. 6d. and 6s. 6d.



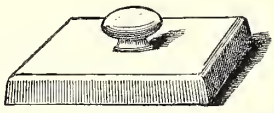
Taper Stand..... 3s. 0d.
Wax Candles, per Box (18)..... 1s. 6d.



Pen Racks, Ebony, each 2s.

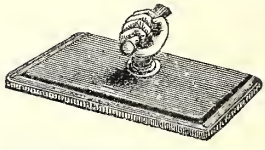


Taper Stand 3s. 6d.
Wax Tapers, 6d. each, 5s. per dozen.



Black Japan Polished Paper Weight.

5 by 3, 2s.; 6 by 3½, 3s. 3d.



Brass Fist Paper Weight.

4½ by 2½, 1s. 3d.; 6 by 3, 2s.

Round Bronze Paper Weights, 2½-inch, 1s., 3-inch, 1s. 6d. each.

A great variety of Paper Weights in Metal, Marble, and Wood.

DRAWING INSTRUMENTS, &c.

	Brass. £ s. d.	German Silver. £ s. d.
Proportional Callipers, 12-inch	2 0 0	2 12 6
Ditto ditto, 9-inch	1 14 0	2 2 0
Proportional Compass, 12-inch	3 0 0	3 13 6
Ditto ditto, 9-inch	2 5 0	3 3 0
Ditto ditto, 6-inch	1 10 0	2 0 0
Ditto ditto, with Adjustment	2 0 0	2 10 0
Whole and half ditto	0 18 0	1 4 0
Triangle ditto	0 18 0	1 4 0
Tube Compass	1 15 0	2 5 0
Ditto Needle Points	1 18 0	2 8 0
Tube Beam Compass	2 0 0	2 11 6
Pocket Turn-in Compass	1 6 0	1 16 0
Ditto ditto, with handles	1 10 0	2 2 0
Ditto ditto ditto, and Bars	2 2 0	2 12 6
Pillar Compass with divided Sheath	1 11 6	2 2 0
Napier Compass	1 11 6	2 2 0
Pocket Dividers, with Sheath	0 8 0	0 10 0
Best double-jointed Compass	0 15 0	1 1 0
Ink Pencil, and Wheel Legs for ditto	0 5 6 each	0 7 0
Lengthening Bar	0 5 0	0 7 0
Hair Divider	0 10 0	0 13 0
Plain Divider	0 6 0	0 8 0
Tates Bow	1 4 0	1 11 6
Double-jointed Bowpen and Bowpencil	0 10 6 each	0 13 0
Ditto ditto, Needle Pointed	0 12 0 each	0 15 0
Hair Bow Divider	0 9 0	0 12 0
Large Needle Bows	0 15 0 each	1 1 0
Spring Bowpen and Pencil	0 8 6 each	0 8 6
Spring Divider	0 7 6	0 7 6
Ivory Handle Drawing Pen	0 5 0	0 5 0
Ditto ditto, jointed	0 5 6	0 7 0
Ebony ditto	0 3 6	0 3 6
Double Pen	0 10 6	0 10 6
Six Wheels and Box	0 6 6	0 6 6
Six Pens and One Handle, in Case	1 10 0	1 10 0
Tracer	0 2 6	0 2 6
Crow-quill Holder	0 3 0	0 3 0
Needle Holder	0 2 6	0 3 0
Knife	0 1 6	0 1 6
Sector jointed Compass, $4\frac{1}{2}$, 5, or 6-inch	0 10 0	0 15 0
Divider	0 6 0	0 8 0
Ink and Pencil Legs	0 11 0	0 14 0
Bar	0 5 0	0 7 0
Bowpen and Bowpencil	0 12 0	0 16 0
Marlow Compass	0 9 0	0 13 0
Divider	0 4 6	0 6 6
Ink and Pencil Legs	0 9 0	0 13 0
Bar	0 4 6	0 6 6
Bowpen and Bowpencil	0 12 0	0 16 0
College Compass	0 7 0	0 10 0
Ink and Pencil Legs	0 7 0	0 10 0
Divider	0 3 6	0 5 0
Bowpen and Bowpencil	0 7 0	0 10 0
Steel Joint Compass, with Pen and Pencil Legs	0 7 0	
Divider	0 2 6	
Bowpen and Pencil	0 6 0	
Drawing Pen	0 2 0	
Case of Instruments, as supplied to the Royal Military College, Woolwich, and Ordnance School	2 12 6	3 13 6
Ditto, as supplied to the Cadets at Addiscombe, £3 3s, £3 13s. 6d., and	4 4 0	
Ditto, as supplied to Harrow School	1 17 6	
Ditto, as supplied to King's College	3 0 0	
Ditto, for Schools	1 1 0	
Architect's Case	3 13 6	4 14 6
Engineer's ditto £3 13s. 6d. to	6 16 6	10 10 0
Magazine Cases of Instruments made of Brass, German Silver, or Silver, from	10 10 0	50 0 0

Scales, Rules, and Tapes made to all Foreign Measures, also English and Foreign Standard Measures.

LETTER AND INVOICE CLIPS AND FILES.

	s.	d.
Board Files, with flaps, covered green cloth ... ... each	2	6
Cowell's Screw Clips... ... ... „	2	0
Map Files, various ... ... „	1	6

	s.	d.
Board Clips, foolscap 4to	1	9
Do. post 4to	2	0
Do. foolscap folio	2	6
Do. post folio	3	6

HAND CLIPS, No. 1, 10d.; No. 2, 1s. 3d.; No. 3, 1s. 6d.; No. 4, 2s. 6d,

PEN TRAYS,

FOR THE OFFICE OR BOARD ROOM TABLE.

Ebony, 10 by 2½, 2s.; Gutta Percha ditto, 2s.
Do. 11 by 2¾, 3s.; Ebony, 12 by 3½, 4s. 6d.
Do. large handsome, 14 by 4, 7s.

IVORY PAPER KNIVES AND FOLDERS.

6-inch, 1s. each; 7-inch, 1s. 2d., 8-inch, 1s. 4d.; 9-inch, 1s. 6d.; with reading hooks 1s. 2d. 1s. 4d., 1s. 8d., and 1s. 10d.

Ivory Tablets, 2s. 6d., 3s., 3s. 6d., 4s. 6d., and 5s.

SUNDRIES.

	s.	d.
Black Ebony Office Rulers per inch	0	1½
Parallel do. ... ... each, from	2	6
Glass rulers, 12-inch ... each	1	0
Boxwood rulers, bound brass and engraved, 36-inch, 11s. 6d.; 42-inch	15	0
Office Bags, large blue, lined each	4	6
Do. small do. ... „	3	0
Do. large crimson, lined „	5	6
Do. small do. ... „	4	0
Linen-Lined Back Sheets for drafts, qre.	3	6
Do. do. do. briefs „	5	0
Parcel Post Wrappers for drafts, per qr.	3	0
Do. do. briefs „	3	6
Do. do. deeds „	4	0
Office Memorandum Pads, plain or ruled faint lines, per doz., 10s. each	1	0
Elastic Bands, per box, 6d., 1s., 1s. 6d.	2	6
Do., extra thick... 1s., 1s. 6d., 2s. 6d.	4	0
Parchment Document Labels for drafts per 100	5	0
Do. do. for briefs „	4	0
Vermilion Powders ... ... each	1	0
Vermilion Fluid, for red lining skins...	1	0
Pounce Boxes, round, japanned, with rubber ... ... each	2	0
Tin Pens, for ruling parchment ...	0	6
Skinholders	0	6
Ruling Pieces	0	6
Paper pounce ... ... per lb.	3	0
Parchment ditto ... ... „	0	4
Sand Boxes ... ... each	1	6
Binding studs for briefs, &c. per doz.	1	0
Cheque Cutters ... each 1s., 1s. 6d.	2	0
Cash Bags ... ... each 4d., 6d.	0	9
Gum Pots and Brushes, each 1s., 1s. 6d.	2	0
Indian Rubber Bottle, Prime thk., p.lb.	5	6
Do. patent squares ... „	5	6
Patent Eraser for removing ink and other stains from paper and parchment, each	0	6
Drawing Pins ... ... per doz.	1	0
Do. Albata, boxed and corked „	2	6

	s.	d.
Pencil Sharpeners ... ... each	3	6
Indian Ink ... ... per stick 6d.	1	0
Ditto large octagon, very superior	6	0
Newman's Water Colours		
Gold Leaf and Shells		
Camel and Sable Hair Pencils		
Colour and Cabinet Saucers and Tiles		
Sponge ... ... per lb. 8s. to	21	0
Stencil Plates cut to order		
Wafer Seals ... ... each 3d., 4d.	0	6
Wafer Boxes, glass ... ... each	2	6
Wax Vesta Lights in japanned safety boxes ... ... per thousand	2	0
Do. do. large size „	2	6
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Porcelain Slates... each 1s., 1s. 6d.	2	6
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Parchment do. ... ... „	0	6
Newspaper Wrappers, in packets of 4 dz.	0	6
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„ Drawing Paper ... „	1	0
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ins.	ins.	Per Roll.	Per Dozen.
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24	„ 28	90	20
25	„ 29	105	23

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Ditto ditto fly ditto	1	15	0
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	s.	d.		£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Large Post 8vo 5 by 8	9	6		0	16	0	1	9	0	2	1	0	3	1	0
Foolscap 4to 6½ by 8	11	0		0	18	0	1	13	0	2	7	0	3	12	6
Large Post 4to 8 by 10	12	6		1	1	6	2	0	0	2	19	0	4	12	0
Foolscap folio 8 by 13	18	0		1	12	0	3	1	0	4	11	0	7	5	6

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At the Reduced Prices, viz., 2s. per sheet, or quarter-sheet, 6d.

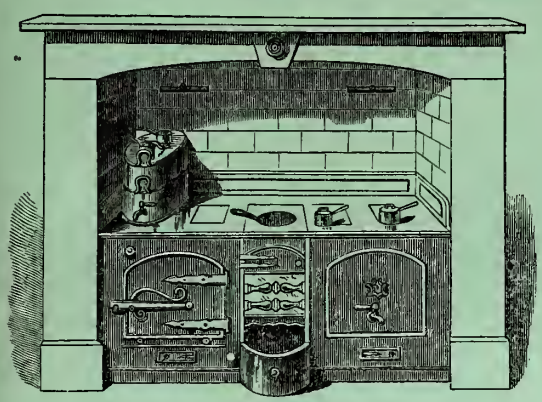
FLAVEL'S PRIZE KITCHENER.

The only Kitchen Range which obtained a Prize Medal and Special Approbation at the Great Exhibition, 1851.

These Ranges are strongly recommended for their simplicity of construction and their economy and cleanliness in use.

It is made from 3 feet to 18 feet in width, suitable for large or small Establishments, and may be arranged to supply a Bath, Steam Kettles, Steam Closets, etc.

It is an effectual cure for Smoky Chimneys.



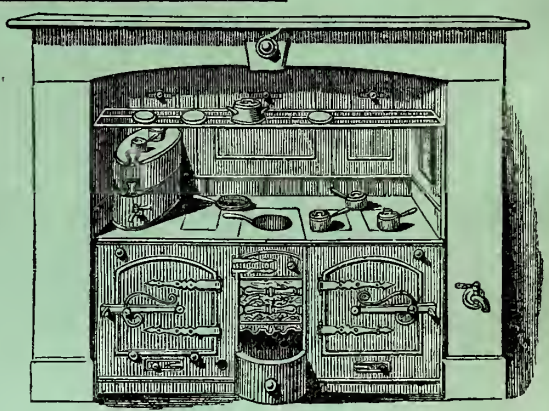
No. 1, A.

This Range is made from 3 feet to 5 feet wide, and consists of a hot plate, on which vessels may be kept boiling without soiling or injuring them—open fire (lined with fire quarries) for roasting—stout wrought-iron roaster, fitted with ventilating tube and valve, for meat, fowls, etc., with moveable shelves—double dripping pan—meat stand and draw-out stand thoroughly ventilated by means of air tubes and valves, by closing which the roaster becomes an excellent oven for baking bread and pastry—a stout iron side boiler, with steam-pipe and brass tap—moveable panels over the fire — fitted with round and square gridirons, for chops, steaks, etc.—ash pan—flat and false bottoms—fire quarries, hook, key, and raker.

PRICES.

If with iron skirting, 7 inches high, at the back and sides of the fireplace, as drawn, from £7 15s. to £12 10s., according to size.

Or, with the high panelled iron Covings and Plate Rack, (as shown in *the other* drawing,) from £10 to £15.



No. 4, B.

This Range is made from 4 feet to 6 feet wide, and consists of a hot plate, whereon boiling, stewing, etc., may be done without injuring or soiling the vessels in use (it is also an excellent ironing stove)—wrought-iron oven and one roaster, fitted with ventilating tube and valve—moveable shelves—double dripping pan—meat stand and draw-out stand. The roaster may be converted into an excellent oven, (by closing the valve,) in which bread, pastry, etc., can be baked in the most satisfactory manner—a large wrought-iron boiler, for supplying hot water to kitchen and scullery, with inlet and outlet pipes, brass tap, round and square gridirons, for chops, steaks, etc.—open fire for roasting—ash pan—flat and false bottoms, fire quarries, hook, key, and raker.

PRICES.

If with iron skirting, 7 inches high, at the back and sides of the fireplace, (as shown in *the other* drawing,) from £15 to £23 10s., according to size.

Or, with the high panelled iron Covings and Plate Rack, as drawn, from £18 to £28 5s.

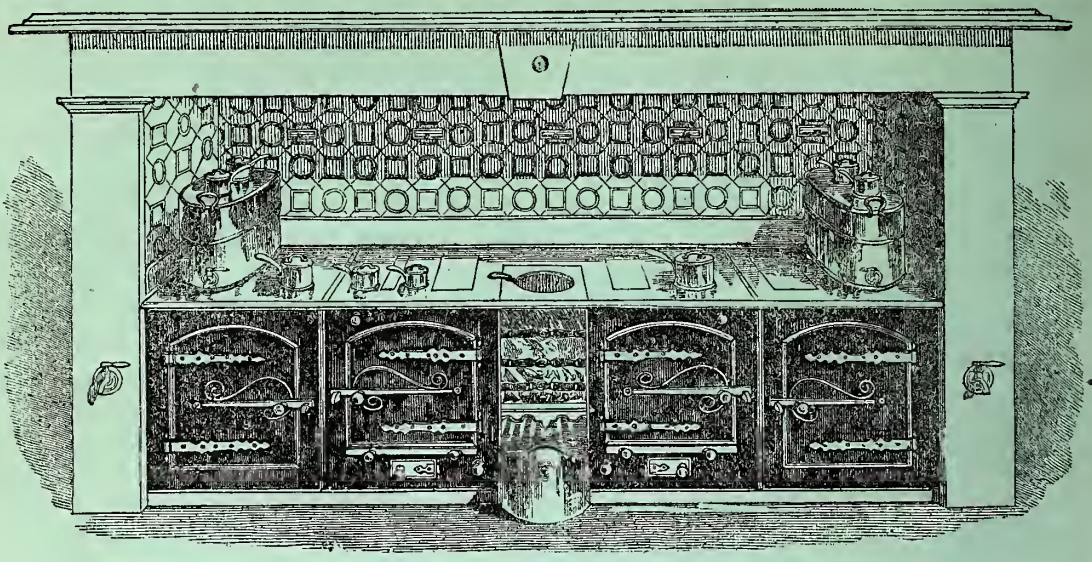
BENHAM & SONS, 19, WIGMORE STREET, LONDON.

And in the HARDWARE COURT of the PARIS EXHIBITION, and the CRYSTAL PALACE, SYDENHAM.

Flavel's Prize Kitchener was also exhibited at the Dublin Exhibition.

[TURN OVER.

FLAVEL'S PRIZE KITCHENER.



No. 8.

This Range consists of a hot plate on which vessels may be kept boiling without injuring or soiling them—moveable middle panels, fitted with round and square gridirons for broiling chops and steaks (the hot plate may be used as an ironing stove)—two wrought-iron roasters (for cooking joints, fowls, etc.) fitted with ventilating tubes and valves, loose shelves, double dripping pans, meat stands, and draw-out stands. By closing the valves, the roasters become excellent ovens for baking bread and pastry—a large wrought-iron boiler for supplying hot water to the kitchen and scullery, with inlet and outlet pipes, brass tap, and steam pipe—two wrought-iron hot closets, with moveable shelves—iron skirting at back and sides—dampers—register door—fire quarries, etc.

Nine Feet wide, price (as described above) **£40.**

They are also made with Grilling or Broiling Stoves at the end if required.

REFERENCES.

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REFERENCES — (*continued.*)

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And many other places.

TESTIMONIALS.

From Dr. Ferguson, 125, *Park Street, Grosvenor Square.*

Dr. Ferguson begs to say he is completely satisfied in every respect with his Grate. It is economical, and the meat is as perfectly well roasted in the Roaster as at an open fire.

From Rev. Alfred Pott, *Principal of Cuddesdon College, Wheatley, Oxon.*

Our Kitchener answers still quite to our satisfaction. The roasting is quite satisfactory, and the kitchen quite free from all smell. The joints come to table quite as well dressed as by an open fire; I should say *better*. My servants are quite satisfied with it.

From Rev. James Marshall, *Little Dean's Yard, Westminster.*

In reply to your letter, I beg to say that the Flavel's Kitchen apparatus in my house, has answered most excellently the purposes for which it was intended. Cooking of all kinds is done with the greatest certainty and ease. A very great number of different dishes can be prepared at once. Cleanliness and saving of labour are its most important advantages. As far as I can guess, the apparatus seems to consume rather more coal than an ordinary range; but I think it would require *less*, if proper skill and care were shown in the management.

From J. W. Larking, Esq., *Milton Place, Egham, Surrey.*

The Stove has now been in operation some time, and gives great satisfaction to our French cook, who admits that, in some respects, it is superior to those made in Paris.

From Mrs. Knight, *Vernon House, Farnham, Surrey.*

We find the Range answers remarkably well.

From Rev. F. K. Leighton, *Harpsden Rectory, Henley-on-Thames.*

Rev. F. K. Leighton has much pleasure in informing Mr. Benham that the Kitchener answers its purpose well, and hitherto gives entire satisfaction.

The workmen did their work well, and in all respects conducted themselves properly while at his house.

From Messrs. Kerr & Scott, *Cannon Street West, City.*

In reply to your favour, we beg to state that the Cooking Apparatus has given entire satisfaction, and we have no doubt of its giving satisfaction to any one so long as there is care in attending to the instructions given with it. We have had it in use for three months.

TESTIMONIALS—(*continued.*)

From Rev. J. R. Crawford, *Grammar School, Great Berkhampstead, Herts.*

We are very well pleased with the operations of the Flavel's Kitchener you recently supplied. It *roasts* and bakes remarkably well.

The workmen you sent conducted themselves with the utmost civility and propriety.

From Lady Williamson, *Whitburn Hall, Sunderland.*

Lady Williamson begs to inform Mr. Benham that the Kitchener lately put up answers perfectly, and gives so far entire satisfaction. Nothing could be more obliging and civil than the conduct of the young man Mr. Benham sent down: he took every pains about the whole affair, and managed it all as well as possible.

From Colonel Menzies, *Royal Marine Barracks, Gosport.*

In reply to your note, I beg to inform you that your workman fitted the Kitchener entirely to my satisfaction. It answers admirably in every respect. He worked well and hard.

From Rev. H. Brancker, *Mortlake, Surrey.*

The Rev. H. Brancker begs to inform Messrs. Benham that the Flavel's Stove has answered perfectly so far as it has been tried.

He is also glad to be able to express his satisfaction at the manner in which the work has been performed by the man who came to set the Stove.

From Lord W. Powlett, M.P., 19, *Curzon Street, Mayfair.*

I have much pleasure in satisfactorily replying to your inquiry as to the operations of the new Kitchen Apparatus you put up for me. I am told the *roasting* answers very well.

From Thomas Parker, Esq., *Binfield Grove, Bracknel, Berks.*

In reply to your note, I have to inform you that, so far as our experience of it goes, we are well satisfied with the Range (Flavel's Kitchener) which you have lately fixed for us, particularly as regards its roasting powers.

From Rev. F. Rendall, *Harrow-on-the-Hill.*

I think the Patent Kitchen Stove, which I have in use, very well fitted for Hospital purposes. It possesses considerable power, the greater part of which may be applied, whenever required, to heating water in large quantities, and by the proper use of the dampers it admits of the most accurate regulation.

Its economy depends entirely on the person in charge of the fire, but the result obtained, in comparison with the fuel used, is very satisfactory.

From W. Beckford, Esq., *Ruxley Lodge, Esher, Surrey.*

I have the pleasure to inform you that the Flavel's Kitchener which you put up for us answers remarkably well; the roasting in the oven, which I so much doubted, is perfect, and we have no use for the bottle jack.

I am also assured that it is economical in fuel.

From the Rev. H. M. Austen, *The Rectory, Crayford, Kent.*

The Rev. H. M. Austen begs to inform Messrs. Benham that he is much pleased with Flavel's Kitchener, which has fully answered his expectations, and is satisfactory on all points.

The roasting is better than before an open fire.

From F. S. Leslie, Esq., *Castlebar Cottage, Ealing.*

In reply to your letter, I beg to say that the Range which you fixed for me gives great satisfaction. The roasting done by it is, I think, quite equal to that done before an open fire, and I consider the Range economical in point of fire as well as cleanly and efficient in all respects, when properly managed.

From Mr. Shuter, 33, *Farringdon Street, Holborn.*

I have much pleasure in stating that the Kitchener which I purchased of you has far exceeded my expectations, and is far superior to what was represented by your shopman.

The roasting of joints, etc., is done better than before the open fire; the meat is not only of a better flavour, but is more tender and does not lose so much in weight. The consumption of fuel is not so much (if properly managed) as in ordinary Ranges.

There is only one thing I have to regret, which is that we have been so long prejudiced against Close Cooking Ranges, as I would not now part with mine for double its cost.

Should you need to give a reference to any persons, I shall be most happy to show mine to any person whom you may send, and give them all particulars.

From Charles S. Lindsell, Esq., *The Holme, Biggleswade.*

I should have answered your inquiry respecting the Kitchener which I had of you ere this, but was anxious to have a good trial of it before doing so.

I can now say that it answers in every way most perfectly, and the meat roasted in it is quite as good as when done before an open fire, in fact I cannot perceive any difference.

My cook likes it very much, and finds it most convenient when we have a dinner party.

BENHAM & SONS,

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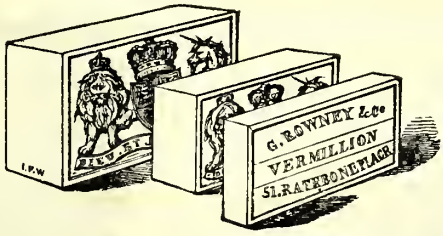
EN QUART PAINS.

EN GODETS (MOITES).
EN TUBE (MOITES).
EN PASTELS (MI-MOITES).

Designation des Couleurs en Anglais et Francais.

Brun Vandyck.	Vandyke Brown.
Bleu de Prusse.	Prussian Blue.
Bleu Mineral.	Antwerp Blue.
Bistre.	Bistre.
Cendre Bleu.	Blue Verditer.
Gomme Gutte.	Gamboge.
Gris Bleu.	Payne's Grey.
Indigo.	Indigo.
Jaune de Naples.	Naples Yellow
Jaune de Roi.	King's Yellow.
Jaune de Chrome, 1 et 2.	Chrome, 1 and 2.
Laque Pourpre.	Purple Lake.
Laque Jaune.	Yellow Lake.
Noir d'Ivoire.	Ivory Black.
,, de Vigne.	Blue Black.
,, de Bougie.	Lamp Black.
Pourpre.	Purple.
Rouge de Saturn.	Red Lead.
Rouge Indien.	Indian Red.
,, de Venise.	Venetian Red.
Stil de Grain Brun.	Brown Pink.
Terre d'Ombre Naturelle	Raw Umber.
Do. Brulé.	Burnt do.
Terre de Cologne.	Cologne Earth.
,, d'Italie Naturelle	Romau Oker.
,, de Sienne do.	Raw Sienna.
Do. Brulé.	Burnt do.
Teintre Neutre.	Neutral Tint.
Vermillon.	Vermilion.
Vert de Hookers, 1 et 2.	Hooker's Green, 1 and 2.
Vert de Prusse.	Prussian Green.
Vert de Vessie.	Sap Green.
Vert Emeraude.	Emerald Green.
Vert Olive.	Olive Green.
Ocre Jaune.	Yellow Oker.
Orpin Rouge.	Orange Orpiment.
Vert de Gris.	Verdigris.



Couleurs dont le Prix est plus élevé.

Designation.	
Blanc Permanent.	Permanent White.
Blanc de Chine.	Chinese White.
Bleu Permanent.	Permanent Blue.
Brun de Garance.	Madder Brown.
Jaune de Mars.	Mars Yellow.
Jaune Indien.	Indian Yellow.
Laque Carminée.	Crimson Lake.
,, Ecarlate.	Scarlet do.
Sepia Naturelle.	Sepia.
,, Coloriée.	Warm Sepia
Vermillon Ecarlate.	Scarlet Vermilion.
Bleu d'Azur.	Azure Blue.
Bleu de Cobalt.	Cobalt Blue.
Carmin Violet.	Violet Carmine.
Jaune de Citron.	Lemon Yellow.
Outremer Français.	French Ultramarine.
Bleu Intense.	Intense Blue.
Garance Rose.	Rose Madder.
Laque de Garance.	Madder Lake.
Carmin.	Carmine.
Do. Brulé.	Burnt Carmine.
Do. Dalia.	Dahlia do.
Cendre Outremer.	Ultramarine Ash.
Ecarlate Pur.	Pure Scarlet.
Garance Pourpre.	Purple Madder.
Jaune de Cadmium.	Cadmium Yellow.
Mars Orange.	Mars Orange.
Pierre de Fiel.	Gallstone.
Smalt.	Smalt.
Outremer Véritable.	Ultramarine.

EXPOSITION FRANÇAISE.

CLASS 10. SECTION 7. NO. 1,073.

GEORGE ROWNEY & CO., 51, RATHBONE PLACE;

BOITES A COULEURS,

BOITE EN ACAJOU,
POLIS,
Avec 12 Pains, &c.

A coulisse de 6 Tablettes.
„ „ 12 „
„ „ 18 „
„ „ 21 „

A Serrure complete, avec Tiroir, Pinceaux, Palette, &c. . . . 12 Tablettes.
„ 18 „
„ 24 „

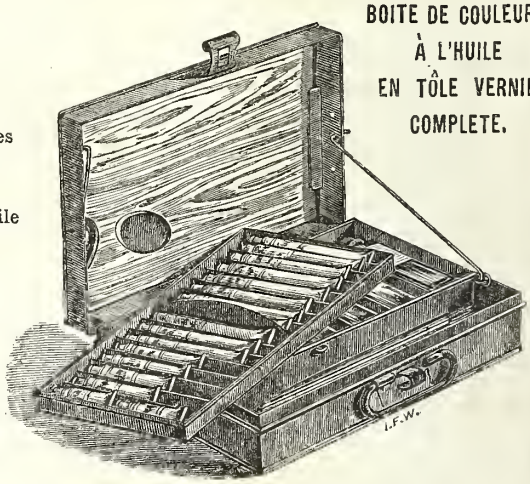
BOITE EN ACAJOU
POLIS,
24 Pains, &c.

Un assortment d'autres Boîtes de Couleurs à encrustations, en Bois de Rose, Pallisande de Citron, Papier Maché et en vrai Bois du Japan.

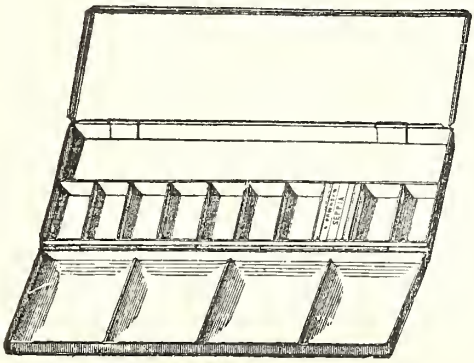
BOITE EN BOIS DE ROSE,
EXTRA FINE POLIS,
Avec 12 Couleurs, &c.

Boites Completes pour la Peinture à l'Huile avec divers Arrangemens.

BOITE DE COULEURS À L'HUILE EN TÔLE VERNIE COMPLETE.

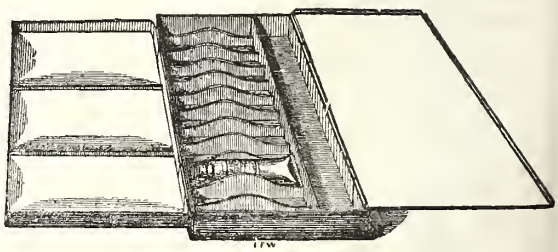


BOITES EN TÔLE VERNIE



BOITE EN TÔLE VERNIE,
Pour les Couleurs Moites en Godets.

De 2 Couleurs
„ 3 „
„ 6 „
„ 8 „
„ 10 „
„ 12 „
„ 14 „
„ 16 „
„ 18 „
„ 20 „



BOITE EN TÔLE VERNIE,
Pour les Couleurs Moites en Tubes.

EXPOSITION FRANÇAISE.

CLASS 10. SECTION 7. NO. 1,073.

CRAYONS A DESSIN DE G. ROWNEY & CIE., DONT LA DENOMINATION SUIT, SAVOIR.

H dur	Pour tracer des lignes.	H B	Dur et noir.
H H plus dur		B	Noir pour ombrer.
H H H	Très dur pour Architectes.	B B	Doux et très noir.
H H H H	Extra dur pour Ingénieurs.	F	Ferme pour dessiner

Grosseur extra très Soignés.

E H B	Très dur et noir.	F F	Très ferme et double mine.
D E H B	Do. et mine très épaisse.	B B B	Doux et très noir double mine.

B B B B B B B Très large mine noire, à 6s. la Douzaine.

Garantis excellente mine Anglaise.

Crayons à dessin seconde qualité en trois dégrées. Et toute sorte de Crayons pour le Bureau et pour Menuisiers.

MESSRS. ROWNEY FABRIQUENT AUSSI TOUTE ESPÈCE DE PASTELS ET DE CRAIES NOIRES ET BLANCHES.

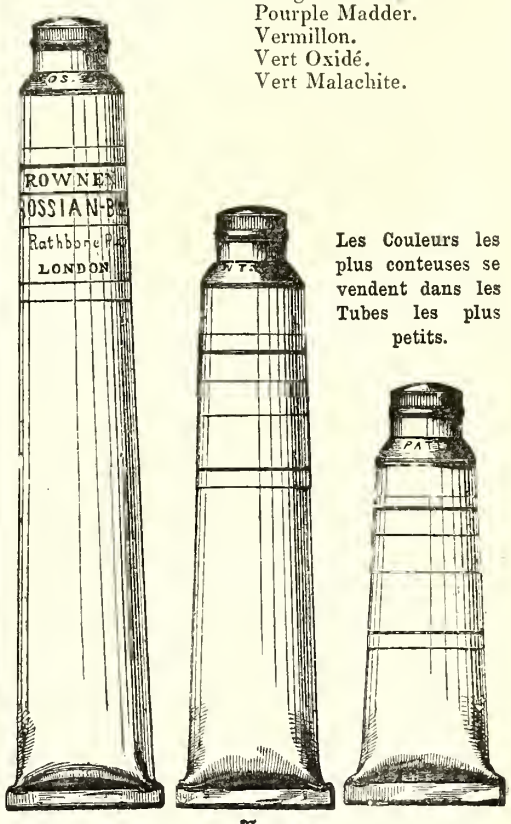
COULEURS EN TUBES, POUR LA PEINTURE A L'HUILE.

DESIGNATION DES COULEURS.

Asphalte.	Noir de Bougie.
Blanc de Plomb.	Ocre Jaune.
Brun Rouge.	Orpin Rouge.
Bleu Permanente.	Rouge de Saturn.
Brun Vandyck.	Rouge Indien.
Bleu de Prusse.	,, de Venise.
Bleu Mineral.	Stil de Grain Brun.
Bistre.	Terre d'Ombre Naturelle.
Bitume.	Do. Brulé.
Gris Bleu.	Terre de Cologne.
Indigo.	,, d'Italie Naturelle.
Jaune de Naples, 1, 2, 3.	,, de Sienne do.
Jaune de Roi.	Do. Brulée.
Jaune de Chrome, 1, 2, 3 et 4	Vermillon.
Laque.	Vert de Prusse.
Laque Pourpre.	Vert Emérande.
Laque Jaune.	Vert Olive.
Noire d'Ivoire.	Vert de Gris.
,, de Vigne.	

COULEURS DITTO D'UN PRIX PLUS ÉLEVÉ DONT LA DÉNOMINATION SUIT.

Bleu de Cobalt.	Jaune de Platine.
Brun de Garance.	Do. de Mars.
Carmin.	Laque de Madder.
Garance Rosée.	Mars Orange.
Jaune Indien.	Orange Vermillon.
Do. de Citron.	Outremer Français.
Do. de Cadmium.	Rouge Ecarlaté.
	Pourple Madder.
	Vermillon.
	Vert Oxidé.
	Vert Malachite.



Les Couleurs les plus conteuses se vendent dans les Tubes les plus petits.

TOILES À PEINDRE.

EXPOSITION FRANÇAISE.

CLASS 10. SECTION 7. No. 1,073.

GEORGE ROWNEY & CO.

EDITEURS, PROPRIÉTAIRES, ET IMPRIMEURS DES IMPRESSIONS CHROMATIQUES EN COULEURS.

MESSIEURS ROWNEY & CO. VIENNENT DE PUBLIER LES IMPRESSIONS CHROMATIQUES SUIVANTES.

Les Impressions ci-dessous sont montées comme les originaux dont elles sont des copies très exactes, tant en couleur qu'en effet. Ces copies s'emploient en grande quantité dans les écoles du gouvernement pour les élèves en peinture à l'aquarelle. Les professeurs les trouveront très utile, leur donnant le moyen de choisir des specimens des artistes les plus célèbres du jour. Les amateurs pourront satisfaire leur goût et embellir leurs appartements de fac-simile de tableaux par des artistes renommés. Plusieurs autres ouvrages par des peintres eminents sont en main et seront annoncés aussitôt parus.

LE POINT DU JOUR (Peep of Day). ... After F. W. Topham.

MACBETH,—LES ASSASSINS DE BANQUO (Macbeth,—the Murderers of Banquo). ... ... After G. Cattermole.

MACBETH,—L'ASSASSINAT DE DUNCAN (Macbeth,—the Murder of Duncan). ... ... After G. Cattermole.

ISOLA LECCHI (Isola Lecchi). ... ... After Leitch.

LE COLLÉGE D'ETON DE LA TAMISE (Eton College, from the Thames). ... ... After J. D. Harding.

VENICE (Venice). ... ... After Wm. Callow.

FLORENCE (Florence). ... ... After S. Palmer.

UNTERSEEN (Unterseen). ... ... After J. D. Harding.

LES PÊCHEURS (The Village Anglers). ... After Muller.

LA MADONE ET L'ENFANT (The Madonna and Child).
Du célèbre Tableau par Vandyke dans la Galerie de Dulwich
(From the celebrated Picture of Vandyke in the Dulwich Gallery).

COLOMBE DANS LA MONASTERE (Columbus in the Monastery ... ... After G. Cattermole.

COMO (Como). ... ... After T. M. Richardson.

COCHEM, SUR LA MOSELLE (Cochem, on the Moselle). After T. M. Richardson.

FRANKFORT (Frankfort). ... ... After Wm. Callow.

COLOGNE (Cologne). ... ... After Wm. Callow.

LAC DE LUCERNE (Lake of Lucerne). After T. M. Richardson.

CHÂTEAU DE WINDSOR (Windsor Castle). After J. B. Pyne.

LA JALOUSIE (Jealousy). ... ... After F. W. Topham.

LA TIMIDITÉ (Diffidence). ... ... After W. Hunt.

CLAINES, PRÈS DE WORCESTER (Claines near Worcester.) After R. P. Noble.

EAST MALLING, KENT (At East Malling, Kent). After R. P. Noble.

L'ÉGLISE DE CLAINES, et VUE LOINTAINE des MALVERN HILLS (Claines Church, With the Malvern Hills in the Distance). ... ... After R. P. Noble.

CHISWICK, AU CLAIR DE LUNE (Chiswick, by Moonlight). After R. P. Noble.

MOULIN DU PAYS DE GALLES (Welsh Mill). After T. Rowbottom.

CHATEAU DE BROUGHAM, WESTMORELAND (Brougham Castle, Westmoreland). ... After Copley Fielding.

CHATEAU DE FOWEY, CORNWALL (Fowey Castle, Cornwall). ... ... After S. P. Jackson.

CHATEAU DE DOUNE (Doune Castle). After J. D. Harding.

UNE ESQUISSE D'APRÈS NATURE (A Sketch from Life). After W. Hunt.

LE SOMMEIL ET LE REVEIL (Sleeping and Waking). After J. H. Mole.

LA LECON (The Lesson). ... ... After J. H. Mole.

LES GLANEURS (The Gleaners). ... After W. A. Robinson.

FILLE DE PÊCHEUR FRANÇAIS (The French Fisherman's Daughter). ... ... After W. Lee.

L'ÈTUDE (The Studio) ... ... After G. E. Hicks.

LA MARCHANDE D'ORANGES (The Orange Girl). After G. E. Hicks.

LA MARCHANDE DE FLEURS (The Flower Girl). After G. E. Hicks.

LA MARCHANDE DE CRESSONS (The Water-Cress Girl). After G. E. Hicks.

LE LASCAR (The Lascar). ... ... After G. E. Hicks.

JEUNE FILLE À LA RIVIÈRE (The Girl at the Stream). After G. E. Hicks.

LA DISEUSE DE BONNE AVENTURE (The Gipsy Girl). After G. E. Hicks.

FONTAINE A ROUEN (Fountain at Rouen). After S. Prout.

1 à 12.—VUES DE RIVIERES (Nos. 1 to 12.—River Views). After R. P. Noble.

LA MEDITATION (Reflection). ... ... After G. Wells.

AMOUR (Amour). ... ... After G. Wells.

LA MÈRE (The Mother). ... ... After G, Wells.

LES PÊCHEURS (The Anglers). ... ... After G. Wells.

LE CUEILLEUR DE FRUIT (The Fruit-Gatherer). After G. Wells.

LA FILEUSE (The Spinner). ... ... After G. Wells.

CHAUMIÈRE PRÈS DE HAYES (Cottage near Hayes). After R. P. Noble.

CATHÉDRALE DE ST. PAUL AU CLAIR DE LUNE (St. Paul's Cathedral by Moonlight.) After E. A. Goodall.

VUE LOINTAINE DE ROUEN (Distant View of Rouen). After E. A. Goodall.

CRYPTE DE LA CATHÉDRALE DE CANTERBURY (Crypt of Canterbury Cathedral). ... After E. A. Goodall.

LE CHÂTEAU DE FOUGERE, Bretagne (Castle of Fougere, Brittany). ... ... After E. A. Goodall.

LA PLACE DU MARCHÉ, ANGERS (Market Place, Angers). After E. A. Goodall.

ST. VALLERY SUR SOMME (St. Vallery sur Somme.) After E. A. Goodall.

CATHÈDRALE DE NOTRE DAME, PARIS (Cathedral of Notre Dame, Paris). ... ... After E. A. Goodall.

LE TOMBEAU D'EDOUARD LE CONFESSEUR, ABBAYE DE WESTMINSTER (Tomb of Edward the Confessor, Westminster Abbey). ... ... After E. Goodall.

FONTAINE DE ST. MACLOU, ROUEN (Fountain of St. Maclou, Rouen). ... ... After E. A. Goodall.

L'ABBAYE DE ST. AMAND, ROUEN (Abbey of St. Amand, Rouen). ... ... After E. A. Goodall.

LA TOUR ET LE PONT D'ANGERS (Tower and Bridge at Angers). ... ... After E. A. Goodall.

VUE PRISE AUX BORDS DE LA LOIRE (On the Loire). After E. A. Goodall.

GROUPES DE FLEURS (Groups of Flowers). After G. Rosenberg.

GROUPES,—FIGURES RUSTIQUES (48 Groups,—Rustic Figures). ... ... After G. E. Hicks.

EXPOSITION FRANÇAISE.

CLASS XXVI. SECTION 2. NO. 3,155.

MANUFACTURED BY

D. & J. MACDONALD & CO.

GLASGOW.

TRIMMINGS AND FLOUNCINGS.

	℔ *Yard.*
Veined Book Scollops and Insertions, ...	2*d.* to 5/.
Do. Jaconet do. do.	2½*d.* " 7/6.
Plain do. do. do.	3¼*d.* " 4/.
Do. Rivière Book and Jaconet Insertions, ...	1*d.* " 2*d.*
Appliqué Book Insertions, ...	6*d.* " 4/.
Mull Insertions, ...	8*d.* " 1/6.
Book, Jaconet, Mull and Cambric Flouncings, ...	3¼*d.* " 14/.
	℔ *Ps. of* 2 *Yds.*
Book Flounce Bands, ...	1*s.* 3*d.* " 16/.
Jaconet do.	1*s.* 0*d.* " 16/.
Cambric do.	1*s.* 6*d.* " 16/.

COLLARS.

	Each.
Finished Jaconet Collars, ...	3*d.* to 14/.
Frilled do.	3*s.* 0*d.* " 13/.
Guipure do.	2*s.* 4*d.* " 8/.
Child's do.	2¾*d.* " 4/6.
Boys' Cambric Collars, ...	3*s.* 6*d.* " 5/6.
Do. Frilled Collars, ...	3*s.* 9*d.* " 6/6.
Finished Book Collars, ...	2*d.* " 12/.
Guipure do.	2*s.* 6*d.* " 8/.
Au Passé do.	1*s.* 6*d.* " 4/6.
Child's do.	6*d.* " 4/.

HABITS AND CHEMISETTES.

		Each.
Embroidered Book Habits,	Embroidered Fronts,	10*d.* to 13/.
	Plain do.	4½*d.* " 7/.
Frilled do.		2*s.* 2*d.* " 15/.
Embroidered Jaconet Habits,	Embroidered Fronts,	1*s.* 2*d.* " 12/.
	Plain do.	6½*d.* " 12/.
Frilled do.		2*s.* 10*d.* " 15/.
Plaited Book Habits,		2*s.* 10*d.* " 7/3.
Do. Jaconet do.		4*s.* 0*d.* " 6/.
Loom-Plaited Book Habit Bodies,		11*d.* " 1/8.
Do. Jaconet do.		1*s.* 2*d.* " 1/10.
Plaited Book Habit Bodies,		1*s.* 6*d.* " 3/9.
Do. Jaconet do.		2*s.* 0*d.* " 3/9.
Embroidered Book Habit Bodies,		2*s.* 0*d.* " 5/9.
		℔ *Dozen.*
Plain Book Habits,		2*s.* 3*d.* " 9/3.
Do. Jaconet do.		3*s.* 6*d.* " 9/3.
		Each.
Frilled Book Chemisettes,		9*d.* " 15/.
Do. Jaconet do.		1*s.* 2*d.* " 15/.
Finished Book do. open behind,		1*s.* 0*d.* " 3/6.
Book Elizabethans,		2*s.* 0*d.* " 4/.
Stomachers,		1*s.* 2*d.* " 3/6.

SLEEVES & CUFFS.

	℔ *Pair.*
Puff Book Sleeves,	4½*d.* to 12/.
Do. Jaconet do.	8*d.* " 12/.
Pagoda Book do.	1*s.* 2*d.* " 12/.
Do. Jaconet do.	2*s.* 4*d.* " 6/.
Frilled Inserted Book Sleeves,	1*s.* 0*d.* " 10/.
Do. Jaconet do.	2*s.* 6*d.* " 8/.
Puff, Pagoda and Inserted Sleeves, with Collars to match,	2*s.* 2*d.* " 20/ ℔ *Set.*
Do. do. do. with Habits to match,	2*s.* 6*d.* " 20/. "
Do. do. do. with Chemisettes to match,	2*s.* 6*d.* " 20/. "
	℔ *Pair.*
Book Cuffs,	1*s.* 8*d.* to 10/.
Jaconet do.	1*s.* 8*d.* " 10/.
Book and Jaconet Cuffs, with Collars to match,	3*s.* 0*d.* " 15/ ℔ *Set.*

MOURNING GOODS.

	Each.
Hemmed Book Collars,	4¾*d.* to 10½*d.*
Do. Jaconet Collars,	5*d.* " 11*d.*
Do. French Lawn Collars,	10½*d.* " 1/3.
Plaited Book Collars,	3½*d.* " 1/6.
Goffered and Crimped Book Collars,	5¼*d.* " 1/9.
Tamboured Black and White Collars,	3*d.* " 1/8.
Embroidered do. do.	1*s.* 2*d.* " 6/.
Do. White Frilled Collars,	1*s.* 10*d.* " 3/6.
Do. Black and White Frilled Collars,	2*s.* 2*d.* " 4/.
Do. White Hemmed Collars,	1*s.* 6*d.* " 3/9.
Do. Black and White Hemmed Collars,	1*s.* 5*d.* " 3/6.
Do. Black Crape Collars,	1*s.* 4*d.* " 4/3.

	Each.
Plaited Black Crape Collars, ...	9*d.* to 3/.
Braided do. do.	7½*d.* " 1/6.
Do. do. do. and Sleeves to match, ...	3/3 ℔ *Set.*
Embroidered do. do. do. do.	8*s.* 6*d.* " 9/3. "
Plaited do. do. do. do.	3*s.* 9*d.* " 6/9. "
Tamboured Black and White Habits, ...	1*s.* 2*d.* " 3/3.
Do. do do. Frilled, ...	2*s.* 2*d.* " 2/4.
Embroidered do. do.	3*s.* 9*d.* " 8/.
Do. White Frilled Habits, ...	5*s.* 3*d.* " 7/6.
Do. Black and White Frilled Habits, ...	5*s.* 9*d.* " 8/.
Goffered Frilled Habits, ...	1*s.* 5*d.* " 3/3.
Plaited Crape Habits and Sleeves to match, ...	5*s.* 0*d.* " 7/ ℔ *Set.*
Do do.	3*s.* 3*d.* " 4/3.
Tamboured Black and White Chemisettes, ...	1*s.* 1½*d.* " 3/3.
Embroidered do. do.	4*s.* 3*d.* " 8/.
Tamboured Black and White Elizabethans, ...	2*s.* 6*d.*
Goffered and Crimped Chemisettes, ...	1*s.* 0*d.* " 1/11.
Plaited Crape Chemisettes, ...	2*s.* 6*d.* " 3/3.
Tamboured Black and White Puff Sleeves, ...	1*s.* 5*d.* " 3/.
Embroidered do. do.	1*s.* 6*d.* " 5/.
Tamboured Black and White Pagoda Sleeves, ...	1*s.* 3*d.* " 2/6.
Do. do. Inserted do.	1*s.* 4*d.* " 3/6.
Embroidered do. do. do.	3*s.* 9*d.* " 10/.
Tamboured do. Gauntlet do.	2*s.* 0*d.*
Embroidered Linen Collars and Sleeves, ...	3*s.* 6*d.* " 4/6 ℔ *Set.*
Plaited do. Habits do.	3*s.* 0*d.* " 5/3. "
Goffered Frilled do. do.	3*s.* 3*d.* " 4/6. "
Do. Inserted, Pagoda and Gauntlet Sleeves, ...	1*s.* 2*d.* " 2/.
Goffered Collars and Sleeves, ...	1*s.* 8*d.* " 4/ ℔ *Set.*
Plaited do do.	1*s.* 8*d.* " 3/6. "
Do. Habits do.	2*s.* 4*d.* " 3/6.
	℔ *Yard.*
Braided Crape Trimmings, ...	7*d.* " 1/3.
Embroidered do.	1*s.* 0*d.* " 2/7.

LACE.

	Each.
Black Lace Veils, ...	1*s.* 2*d.* to 10/.
White do.	1*s.* 2*d.* " 10/.
Black Lace Falls, ...	7*d.* " 9/.
White do.	7*d.* " 9/.

CAPS.

	Each.
Child's Jaconet Caps, ...	4*d.* to 2/6.
Do. Book do.	8*d.* " 10/.
Do. French Cambric Caps, ...	4*s.* 0*d.* " 16/.
Ladies' Book Caps, ...	2*s.* 0*d.* " 25/.
Do. Jaconet do.	1*s.* 3*d.* " 25/.
	℔ *Dozen.*
Cap Crowns, Jaconet, ...	1*s.* 0*d.* " 4/.

BABY LINENS.

	Each.
Infants' Robes, Embroidered, ...	6*s.* 3*d.* to 90/.
Do. Rivière Skirts, ...	2*s.* 9*d.* " 9/.
Children's Frocks, Embroidered, ...	5*s.* 0*d.* " 25/.
Do. Rivière Skirts, ...	2*s.* 6*d.* " 8/.
Rivière Robe Skirts, ...	1*s.* 9*d.* " 6/.
Do. Frock do.	1*s.* 2*d.* " 4/.
Frock Bodies, ...	0*s.* 9*d.* " 10/6.

DRESSES, PETTICOATS, AND MANTLES.

	Each.
Ladies' Embroidered Cambric Petticoats, Plain and Corded, ...	4*s.* 6*d.* to 60/.
Do. Book Dresses, ...	4*s.* 6*d.* " 30/.
Girls' do. do.	4*s.* 6*d.* " 15/.
Ladies' do. Mantles, ...	5*s.* 6*d.* " 21/.
Girls' do. do.	5*s.* 6*d.* " 21/.

HANDKERCHIEFS.

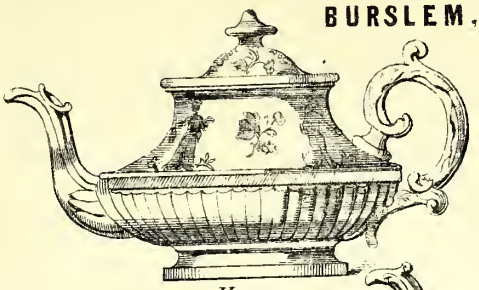
	Each.
Cambric Handkerchiefs, ...	1*s.* 0*d.* to 5/.
French Cambric do.	2*s.* 6*d.* " 30/.

LADIES' & CHILDREN'S UNDERCLOTHING, &c.

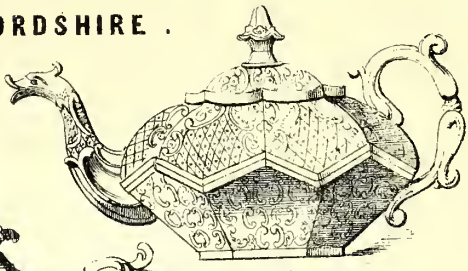
	Each.
Ladies' Trousers, ...	3*s.* 0*d.* to 20/.
Do. Night Dresses, long, ...	6*s.* 0*d.* " 40/.
Do. do. short, ...	3*s.* 0*d.* " 15/.
Do. Petticoats, ...	4*s.* 6*d.* " 20/.
Do. Chemises, Cotton and Linen, ...	3*s.* 0*d.* " 20/.
Do. Morning Dresses, ...	10*s.* 0*d.* " 30/.
Maids' Night Dresses, ...	5*s.* 9*d.* " 12/.
Do. Trousers, ...	3*s.* 0*d.* " 10/.
Do. Chemises, ...	3*s.* 0*d.* " 10/.
Misses' Trousers, ...	2*s.* 3*d.* " 10/.
Do. Slips, ...	2*s.* 3*d.* " 6/.
Do. Chemises, ...	2*s.* 0*d.* " 4/.
Do. Frocks, ...	6*s.* 0*d.* " 40/.
Do. Pinafores, ...	1*s.* 6*d.* " 9/.
Do. Pelisses, ...	8*s.* 0*d.* " 30/.
Do. Night Dresses, ...	4*s.* 3*d.* " 10/.
Boys' Overalls, ...	4*s.* 9*d.* " 30/.
Do. Dresses, ...	8*s.* 0*d.* " 40/.
Do. Trousers, ...	2*s.* 3*d.* " 9/.
Do. Jackets, ...	3*s.* 6*d.* " 20/.
Do. Frock Pinafores, ...	3*s.* 6*d.* " 9/.
Babies' Monthly Robes, ...	4*s.* 6*d.* " 15/.
Do. Slips, ...	2*s.* 9*d.* " 10/.
Do. Pinafores, ...	1*s.* 4*d.* " 4/6.
Do. Carrying Frocks, ...	7*s.* 0*d.* " 40/.
Do. Bibs, ...	0*s.* 6*d.* " 2/.
Do. Morning Gowns, ...	2*s.* 6*d.* " 4/.
Do. Chemises, ...	1*s.* 0*d.* " 5/.
Do. Night Dresses, ...	1*s.* 6*d.* " 2/6.

CORK & EDGE. EARTHENWARE. BLACK & LUSTRE MANUFACTURERS

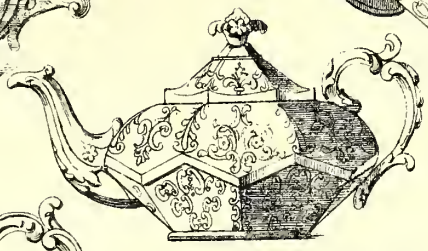
BURSLEM, STAFFORDSHIRE.



Victoria.

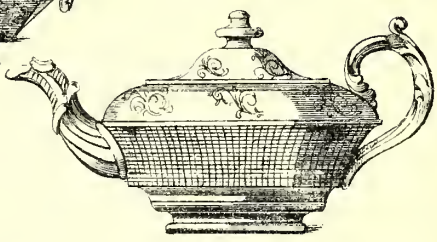


Prince Albert.

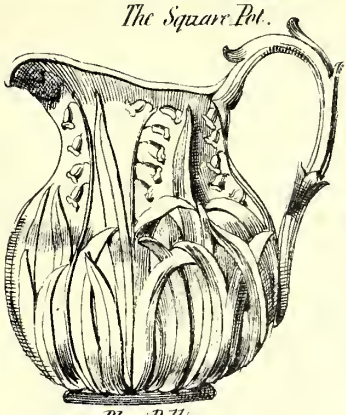


Septagon.

The Square Pot.



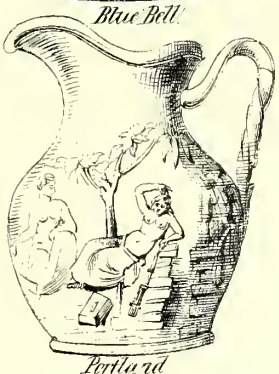
№9.



Blue Bell.

Toby.

Lily №2



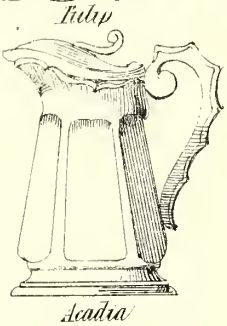
Portland

Bacchanal

Tulip

Ivy Tobdy

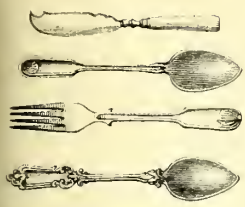
Babes

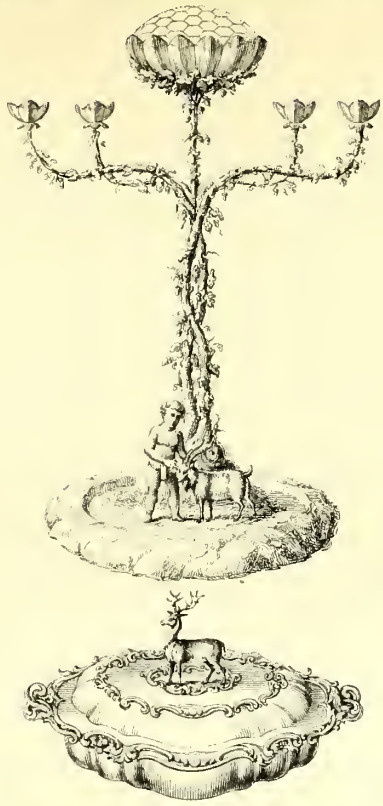


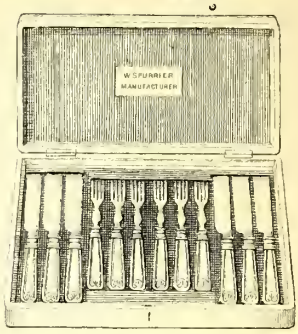
Acadia

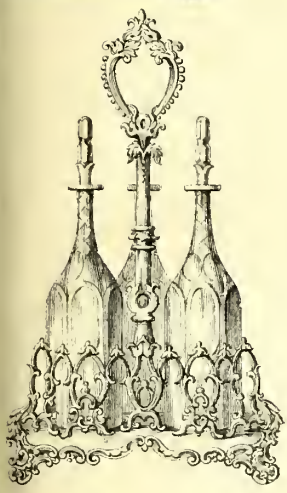
I. Underwood Lith. Burslem

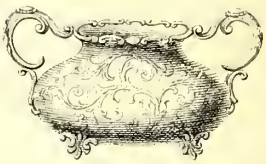
ELECTRO SILVER PLATE.

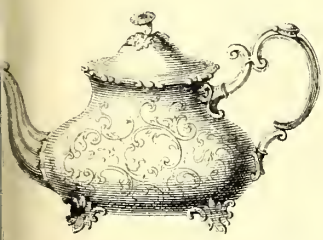










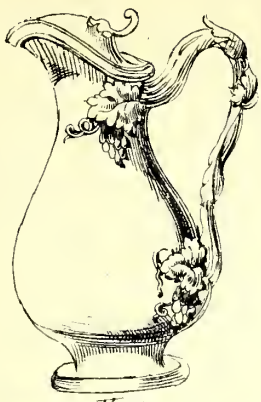


WILLIAM SPORRIER, MANUFACTURER,

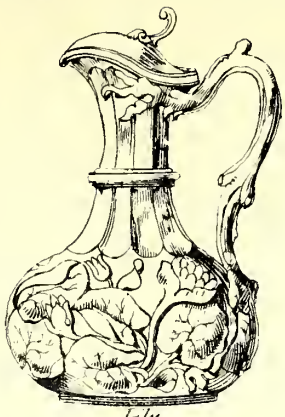
5, NEWHALL STREET, Birmingham.

CORK&EDGE. EARTHENWARE. BLACK & LUSTRE MANUFACTURERS

BURSLEM, STAFFORDSHIRE.



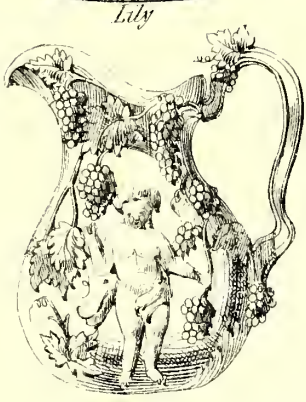
Vine



Lily

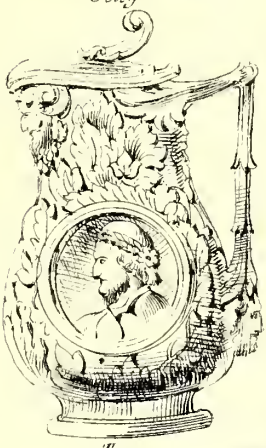
Grape Gatherer

Stag.



Ino.

Babes in the Wood



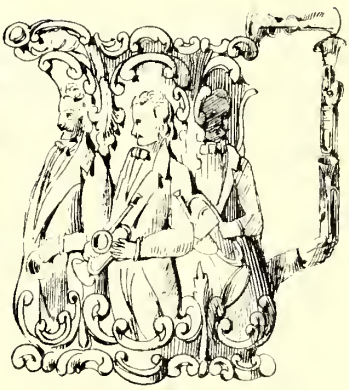
Tasso.

Apostles

Oak

Beauvais

Cup bearer



Distaff family

Herwood Lith. Bornm.

CORK & EDGE, EARTHENWARE, BLACK & LUSTRE MANUFACTURERS

BURSLEM, STAFFORDSHIRE.

The Lily

No 2.

No 7.

No 8.

No 6.

No 11.

No 10.

Raspberry

Parma inlaid

Fordove

The Square Pot

Raspberry plain

I Underwood Lith Burm

NEAL AND TONKS,

13, GREAT CHARLES STREET, BIRMINGHAM,

MANUFACTURERS OF

VEST AND DRESS BUTTONS,

Shirt Studs, Shirt Sleeve Links, Coat Links, Bracelets,

BLACK BROOCHES,

SLIDES, NECKLACE SNAPS, CLOAK CLASPS,

And Various Ornaments in

STONE, GLASS, PEARL, IVORY, JET, WOOD,

&c., &c.,

NEAL ET TONKS,

13, GREAT CHARLES STREET, BIRMINGHAM,

FABRICANTS DE

Boutons de Gilets et autres Vêtements,

BOUTONS DE CHEMISES ET DE MANCHETTES,

DE BRACELETS, BROCHES NOIRES,

Coulants, Fermoirs de Colliers, Agraffes de Manteaux,

BRIDES DE BOUTONNIERES,

ET DIVERS ORNEMENTS DE

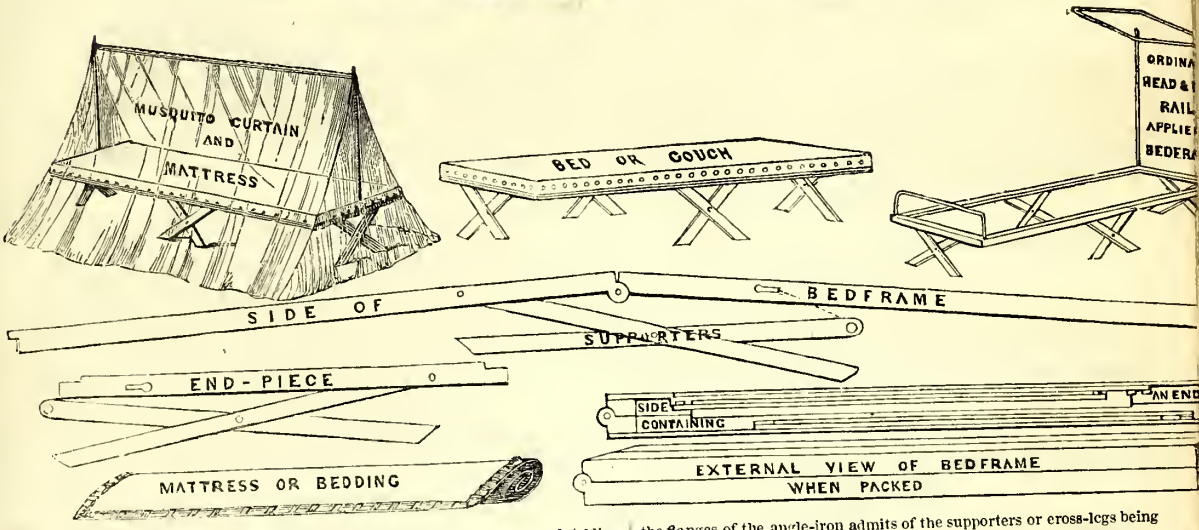
PIERRERIES, VERRES DE FANTAISIE, NACRE, IVOIRE,

JAIS, BOIS, &c., &c.,

PATENT PORTABLE BEDSTEAD, BEDDING, AND TENT OR CAMP-COT,

JOHN BLAIR, Esq, IRVINE, AYRSHIRE, N.B., INVENTOR AND PATENTEE.

Manufactured by R. LAIDLAW & SONS, *of* 16, *Buchanan Street, Glasgow, and Simon Square, Edinburgh.*



This patented invention may be described as an improved folding Bed-frame, made of angle-iron, with a novel description of suspensory Mattress or Bed of a thick woollen fabric, to which strong metal hooks or studs are attached, whereby the mattress may speedily be affixed to or detached from the Bedstead. The nature of the materials used and arrangement of the details unite strength with compactness, and secure facilities for conveyance, erection, or removal, with little liability to injury. The Bedstead, with mattress, forms a Bed or Conch most suitable for school, asylum, hospital, barrack, or ordinary purposes, light iron rods being fitted or screwed into the ends of the Bed-frame to support easily adjusted Musquito curtains, for foreign or colonial use. The application of a ridge-roof shaped covering, of canvass or water-proof cloth, affords the additional advantage of a portable tent, available for field service.

The Bedstead may be of various dimensions, but that generally used is about 6 feet 6 inches long, 30 inches wide, and 18 inches high. The framework is composed of four rectangular pieces of angle-iron, with relative dovetail joints, by which the parts may be connected or detached at pleasure, and is supported by folding crossed legs of flat iron, permanently attached to each of the sides and ends. In packing the Bed-frame for transport, the longitudinal pieces or sides fold, by means of a joint at the centre of each, into half-lengths: the space between the flanges of the angle-iron admits of the supporters or cross-legs being turned in on pivots, with which they are fitted; and a recess is also formed sufficient to contain the end pieces, with supports similarly folded, so that when laid together, the whole appears a compact bar about 3 feet 3 inches in length, by 2½ inches square in its section. The woollen Mattress or Bed, by the peculiar mode of attaching it to the Bedstead, renders every description of "sacking" unnecessary, and may be rolled round the Bed-frame, and packed into a cylindrical tin or other case, about 3 feet 4 inches long, by 6 inches in its diameter. The Bed-frame, with Bedding, Musquito curtains, and Tent covering, forming a complete Camp-cot, may also be packed into a similar water-proof case or cover, about 3 feet 6 inches long, by 9 or 10 inches in its diameter.

This remarkable combination has attracted the attention of eminent and distinguished persons, and obtained from them opinions expressed in the printed Testimonials herewith appended for consideration.

The sanitary advantages and economy of space afforded by the woollen Bed or Mattress, and the peculiar method of attaching it, although especially designed for the Bed-frame already described, may, *by license*, be extended to any other description of portable Bed-frame, rendered available for berths in Emigrant or Troop Ships, and applied to ambulances or stretchers for Field-Hospitals.

The Patentee is prepared to grant Licenses for the manufacture and disposal of the above; applications may be addressed to him at Irvine, Ayrshire, Scotland.

AGENTS:—MICHAEL NOURSE & CO., OF No. 17, CORNHILL, LONDON; AND AT "THE EXHIBITION BUILDING," PARIS.

TESTIMONIALS.

From the Right Honourable VISCOUNT HARDINGE, *G.C.B., the* COMMANDER-IN-CHIEF *of the Forces, &c.*

JOHN BLAIR, ESQ.—SIR,—I consider the Camp Bed of your invention more portable, more easily put up and taken down, than any with which I am acquainted. The mode of fastening the ticking or stretcher of the bottom of the Bed by means of strong hooks is ingenious, simple, and effective.—I have the honour to be, your very obedt. servt.,

HARDINGE.

From MAJOR OLIPHANT, *&c., &c., the* CHAIRMAN *of the Hon. the Board of Directors of the East India Company, &c., &c.*

EAST INDIA HOUSE.

JOHN BLAIR, ESQ.—DEAR SIR,—It gives me pleasure to bear testimony to the utility of your Camp Cot, and I have no doubt that in India, where portability is of so much consequence, it will meet with the approval which, in my opinion, it deserves.—I remain, dear Sir, yours faithfully,

J. OLIPHANT.

From Lieutenant-General G. A. WETHERHALL, C.B, *Deputy Adjutant-General, &c., &c.*

HORSE GUARDS.

JOHN BLAIR, ESQ.—DEAR SIR,—The Camp Bed which you showed to me and other Officers is so compact, so light, and in every respect so strong and serviceable, that it cannot fail to be generally adopted by officers and others who lead a roving life. Its simplicity is not its least recommendation.—Truly yours,

G. A. WETHERHALL.

From PROFESSOR SIMPSON, *&c., &c., &c., Edinburgh.*

52, QUEEN STREET, EDINBURGH,
16th Feb., 1854.

MY DEAR SIR,—I think your Portable or Camp Bed extremely ingenious; and, like most other ingenious things, extremely simple. It seems to combine admirably the properties of great strength and great portability.—Yours very truly,

J. Y. SIMPSON.

To JOHN BLAIR, ESQ.

From THOMAS SPENCE, ESQ., M.D., *of the Army Medical Board, &c.*

15, ST. JAMES' PLACE.

JOHN BLAIR, ESQ.—SIR,—I have to thank you for showing me your Iron Bedstead, which is the most portable and convenient article I have ever seen; and I feel quite sure it will be a very great acquisition to Military Officers. The Musquito-curtains are upon an excellent plan; and, indeed, the whole appears to me a most ingenious invention.—I am, Sir, your obedt. servt.,

THOMAS SPENCE, M.D., *Staff-Surgeon.*

From G. BROWN, ESQ., M.D., *Surgeon-Major of the Grenadier Guards, &c., &c.*

January 30, 1854.

JOHN BLAIR, ESQ.—MY DEAR SIR,—Several applications have been made to me relative to your Camp Cot, more so lately by those who think their services may be required in the East; and I have therefore been induced to trouble you for such information as your arrangements will permit you to give, as to the probability of their being procured in London, or indeed any where else.

Should troops be sent from England on active service, there is no doubt that almost all the officers will require some sort of Camp Bed; and *of all I have yet seen your Cot is the best; and such is the opinion of every one who saw it at* CHOBHAM *last summer.*—I am, yours very sincerely,

G. BROWN, *Grenadier Guards.*

From His Royal Highness the DUKE OF CAMBRIDGE, *Lieutenant-General, &c., &c.*

ST. JAMES' PALACE, *March* 30, 1854.

To JOHN BLAIR, ESQ.—I have seen the Camp Bed and Tent invented by Mr John Blair, and consider the invention valuable for the field, and on service.

GEORGE.

From the Right Honourable the EARL OF EGLINTON AND WINTON, K.T., *&c.*

JOHN BLAIR, ESQ.—MY DEAR SIR,—I have examined your invention of a Portable Bed with pleasure, and I have no doubt that it will be found very useful for military purposes, as well as for sportsmen.—Very truly yours,

EGLINTON & WINTON.

From H. T. PRINSEP, ESQ., H.E.I.C.C.S., *one of the Honourable the Board of Directors of the East India Company, &c.*

EAST INDIA HOUSE.

DEAR SIR,—I think your portable Bedstead the best I have yet seen, and have much pleasure in recommending it to Indian Officers, for whose use it is remarkably adapted. I have evinced my opinion of its *general utility* by requesting you to secure one for myself, so soon as your arrangements for its manufacture are made.—I am,

H. T. PRINSEP.

To JOHN BLAIR, ESQ.

From LIEUT.-GENERAL PATRICK MONTGOMERIE, C.B., *Aide-de-Camp to the Queen, &c., &c.*

MY DEAR SIR,—I have been much pleased with your Camp Cot, from its portability and the ease with which it is put together. It would be an excellent article for field service, and is likely to be sought after in India. It really does you great credit to have contrived so ingenious an article.

I am, very truly yours,

P. MONTGOMERIE,
Madras Artillery.

To JOHN BLAIR, ESQ.

From CAPTAIN A. J. PACK, *Depute Assistant Adjutant-General, &c.*

HORSE GUARDS.

SIR,—Your Patented Camp Bedstead, which I saw you both put up and take down, seems to me singularly commodious and portable, combining, as it does, lightness with strength.—I am, Sir, your obedt. servt.,

A. J. PACK,
Capt. Dept. Assist. Adjt.-Genl.

JOHN BLAIR, ESQ.,
At Hill's Hotel, Spring Gardens.

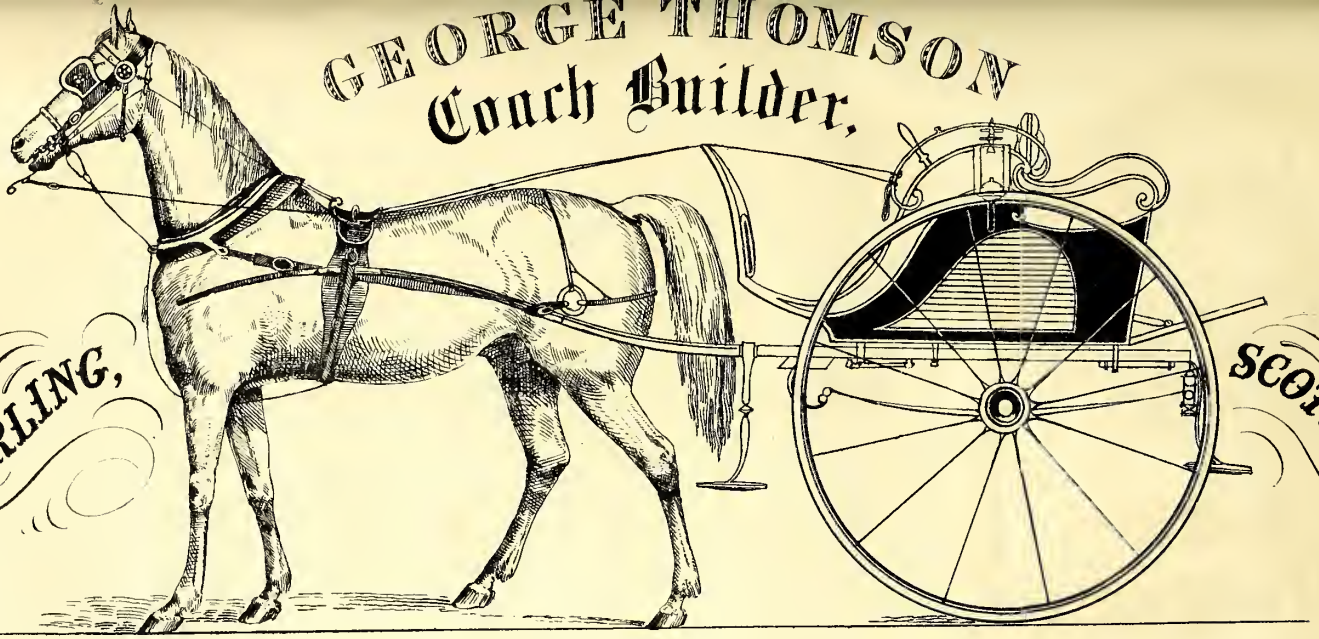
From GEORGE E. BLENKINS, ESQ., *Surgeon, Grenadier Guards.*

LONDON, *February* 8, 1854.

JOHN BLAIR, ESQ.,—I fortunately obtained the use of your Camp Bed during the six weeks I was encamped at Chobham last year, and have great pleasure in bearing testimony to the admirable manner in which it meets all the requirements of a military bed. In its construction it combines the essential qualities of strength, lightness, and compactness, added to a most ingenious contrivance for folding up into a small compass, which causes it to surpass any other with which I am acquainted.—Yours truly,

GEORGE E. BLENKINS,
Grenadier Guards.

GEORGE THOMSON
Coach Builder,



STIRLING, SCOTLAND.

Exhibits a Lever Balancing Dog Cart, in the Paris Universal Exhibition.

GROUP II. CLASS V. Nº 404.

This Dog Cart was exposed in the Crystal Palace London in 1851, where an unparalleled number of orders was received for it. Afterwards it obtained the Silver Medal of the Highland and Agricultural Society of Scotland, in 1852.

The present Vehicle is now exhibited with several additional improvements. It is built of Scotch Oak Varnished, but may be painted any Colour to Order.

In addition to its lightness and elasticity of Springs, this Dog Cart is easily altered to accommodate the weight upon the Horse when Two, Three, or Four persons are upon it.

Price at the Works, £30.

Drawings and Prices of all Sorts of Carriages forwarded on Application.

S. L. 1st May 1855

By Her Majesty's Royal Letters Patent.

WILLIAM AND JOHN RIGBY,

HOLDERS

OF THE

Prize Medal of the Great Exhibition,
1851.

Gold and Silver Prize Medals of
the Royal Dublin Society,
&c. &c.

MANUFACTURERS OF IMPROVED FIRE ARMS, GUN BARRELS, &c.

Beg to call attention to their Contributions to the present Exhibition, Class XIII, Group IV. comprising:—

1. A pair of double guns, manufactured to the order of his ROYAL HIGHNESS PRINCE ALBERT.

These guns are so perfectly similar, that the barrels, locks, and even triggers fit in either stock without distinction. The barrels are of solid Damascus, raised and lettered in gold. The triggers are capable of being easily removed, for the purpose of cleaning. The mounting is continued up the forepart of the stock, so as materially to strengthen it; and the slide-bolts are solid, and secured in an improved manner. The two guns, with all the apparatus, are fitted in one case lined in red Russia leather.

2. Stock, lock, and breech of a large stanchion gun in an unfinished state, shewing a new method of ignition, whereby the possibility of a miss-fire is prevented.

3. Block and screw elevator for ditto.

4. An improved front-action double gun, with Damascus barrels, improved mounting. 15 gnage. 6lbs. weight.

5. An improved back action double gun, with safety bents.

6. An improved barlock double gun, with steel barrels and continuous mounting. In case, complete.

7. A four-ounce Rifle, with improved molds for ditto.

8. A pair of single Rifled Pistols with saw handles, hair triggers, improved eccentric barrels. In case, &c.

9. Specimens of Revolvers, showing the application of Rigby's patent ramrod.

10. An improved detachable Revolver, with Rigby's spring detachment, safety bolt, &e.

11. Specimens of bullet-molds, including Rigby's mold for casting in a more perfect manner "minie" and other bullets with hollow bases.

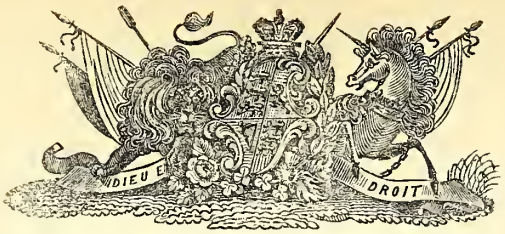
Rigby's mold for casting perfectly solid spherical bullets.

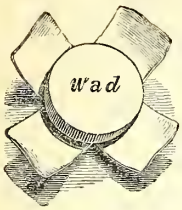
Rigby's mold for casting improved conical bullets.

12. Specimens of gun barrels in the planed and ground state.

13. Specimens of Rigby's Patent Rifle Patches, (for description, see other side) and of improved Conical Bullets, made by compression.

24 SUFFOLK STREET, DUBLIN.



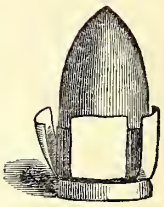


Patent Patch, lower side.

BY HER MAJESTY'S

Royal Letters Patent.

Granted March, 1855.



Bullet and Patch.

WILLIAM AND JOHN RIGBY'S

IMPROVED RIFLE PATCHES.

THE introduction of conical bullets for Rifles, while it has greatly increased their force and accuracy at long ranges, has not been found to present similar advantage at short ones. And the source of this defect is, that, as they are usually made and used, conical or elongated bullets seldom, if ever, leave the barrel *perfectly* point foremost; and only acquire their true position, after they have for some time been subjected to the action of the air, that is, after having traversed a distance, which varies with circumstances. One of the principal causes of this inaccuracy is to be found in the Patches ordinarily used, which are in very few cases placed perfectly central on the muzzle in loading; and the creases of which being unevenly distributed round the bullet, cause it to assume an oblique position in the barrel.

The improved Patches perfectly remedy these defects. The attached Wad immediately determines their correct position without adjustment, and their form causes them to envelope the bullet without creases. The Wad has the additional advantage of cleaning the barrel, and diminishing the instantaneous shock of the explosion. And lastly; these Patches encumber the bullet in its flight less than any other, as they are immediately detached by the action of the air.

24 SUFFOLK STREET, DUBLIN.

RIGBY & ROBINSON,

COACH BUILDERS,

7, PARK LANE, PICCADILLY, LONDON,

EXHIBITORS & MANUFACTURERS

OF A

NEW STYLE OF OPEN CARRIAGE,

Combining Extreme Lightness with Ease and Elegance.

THE IMPERIAL

PARK BAROUCHE,

Group, 2. Class, 5. No. 401.

AGENT IN PARIS, MR. F. SPIERS,

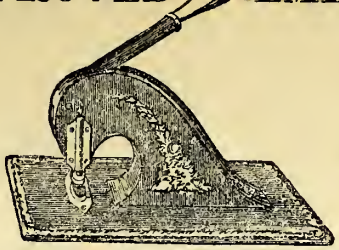
RUE DE LA PAIX, No. 13.

JARRETT'S IMPROVED EMBOSSING PRESS

AS EXHIBITED AT THE

Crystal Palace, Hyde Park,

CLASS 6, No. 154.



AND AS NOW EXHIBITING AT THE

Crystal Palace, Sydenham,

AND THE

Paris Universal Exhibition.

They are adapted for easily and effectually Embossing Crests, Coats of Arms, Names, or any other Engraving on Writing Paper, Envelopes, Books, Official Documents, &c.

CASH PRICES.

	Best quality.	2nd quality.	3rd quality.
For a small-sized Press, with Die and Counterpart, including the engraving of either a coronet; or a crest; or initials; or name, business, and address	24s.	21s.	17s. 6d.
For a second-sized Press, furnished as above	28s.	25s.	21s. 0d.
For a large Press, with Die, &c., fitted as above	36s.	34s.	30s. 0d.

The small Press will take in any Die not exceeding in size the diameter of a shilling. The second-sized Press admits of a Die as large, if necessary, as the diameter of half-a-crown; and the large Press is adapted for any Die up to 1¾-inch in diameter.

Two or more Dies may be used in these Presses.

Ladies and Gentlemen having already dies of their own, may have the same fitted to these Presses.

Extra large Lever Presses adapted for Public Companies, Two Guineas.

N.B.—The superiority of JARRETT'S EMBOSSING PRESSES, and the continued favor in which they are held by the public, may be clearly discerned from the fact of other makers having been compelled to resort to the expedient of imitating the shape of these Presses, and, as far as they are capable, of adopting the principle of their construction. The great demand for these Presses has enabled Mr. JARRETT to make a considerable reduction in their prices.

JARRETT'S IMPROVED COPYING PRESSES.

		SCREW PRINCIPLE. CAST BEAMS. Extra weight and finish.	SCREW PRINCIPLE. WROUGHT IRON BEAMS. Extra weight and finish.	LEVER. With Wrought Iron Beams, &c
Note Size	8-in. by 6-in.	30s.	34s.	38s.	40s.	27s. 6d.
Letter Size	11-in. by 8½-in.	36s.	40s.	44s.	47s.	30s. 0d.
Large Post	12-in. by 10-in.	40s.	45s.	50s.	54s.	35s. 0d.
Foolscap	15-in. by 10-in.	48s.	55s.	60s	66s.	42s. 0d.
Folio	18-in. by 11-in.	60s.	68s.	76s.	84s.	50s. 0d.

Jarrett's Screw Embossing Presses.

		Best quality. Brass bush'd, with springs.
No. 1.	For dies up to 0¾-in. diameter	30s.	38s.
No. 2.	Ditto 1⅛-in. do.	42s.	50s.
No. 3.	Ditto 1¾-in. do.	78s.	90s.
No. 4.	Ditto 2½-in. do.	116s.	130s.

JARRETT'S IMPROVED COMBINATION PRESS.

WITH WROUGHT IRON BEAM, BRACKET ARM, &c.

Answering the purpose of both a Copying and Embossing Press, and so contrived that no shifting of parts is required to apply it to either purpose.

PRICES OF PRESSES ONLY.

Large Post Size, 68s. Folio Size, 94s.

JARRETT'S PATENT PRINTING OR INDORSING PRESS.

The very general objection to endorsement Stamps, &c. where fluid ink is used, from the inconvenience incident upon the drying or caking of the ink, which renders the production of a correct or satisfactory impression so uncertain, has induced the Patentee of the above Press to substitute Carbonic or other Chemically prepared Paper or material for the ordinary printing inks.

JARRETT'S PATENT PRINTING PRESS is a Self-acting Apparatus, adapted for the desk, counter, or writing table; it is very portable, and easily worked by the hand—the stamping action of the Machine brings continually a fresh supply of colouring matter to the Die or Type, so that there is no interval of time wasted between the successive impressions, and the Press is always ready for use.

Among the many purposes to which this Press is eminently adapted may be mentioned, the endorsing of Cheques, &c., the stamping on Prices Current, Sale Lists, Bills of Lading, Tradesmen's Bills, Prescription Wrappers, Cards, Letters, Books, &c.; and the marking of Linen, Silks, &c.

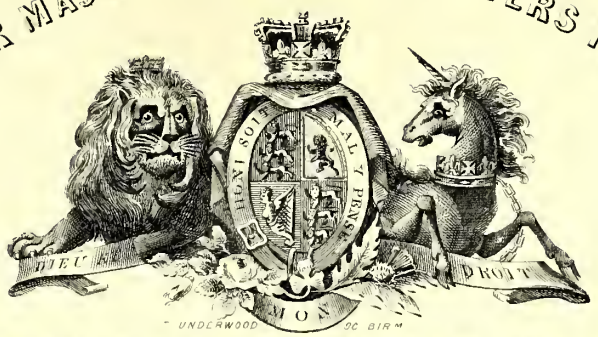
PRICES.

No. 4 Press, capable of stamping with any number of dies, of any size and shape, not exceeding 4½ inches in length	2½	Guineas.
No. 3 Press, " " 2⅝ "	2	"
No. 2 Press, " " 1¼ "	1½	"
No. 1 Press, (made of Gun-metal) " " 1 "	1½	"

The prices of the Dies prepared for lettering, from 1s. each; Lettering of Brass Dies in raised Characters, from 3d. per letter; Chemically prepared coloured paper, from 1s. 6d. per Box, containing Two dozen Slips.

GRIFFITH JARRETT, Press Manufacturer & Patentee, Die Sinker & General Engraver,
37, POULTRY, (a Dozen doors West of the Mansion House,) LONDON.

BY HER MAJESTY'S ROYAL LETTERS PATENT.



ARCHIBALD KENRICK & SONS,

Iron Founders,

WESTBROMWICH,

STAFFORDSHIRE,

MANUFACTURERS OF THE PATENT

ENAMELLED HOLLOWARE,

FOR

CULINARY, CHEMICAL, & OTHER PURPOSES,

MANUFACTURERS

OF THE IMPROVED TINNED CAST IRON,

KITCHEN FURNITURE,

Patentees

OF AN

Improved Method of Tinning Cast Iron Vessels

PATENTEES & MANUFACTURERS,

OF

FLANCH & BOX COFFEE MILLS,

Patentees

AND MANUFACTURERS OF THE PIVOT JOINTED BUTT HINGE,

MANUFACTURERS OF

DOOR KNOCKERS, HINGES, IRON & BRASS FRAMED PULLIES, CASTORS,
DOOR LATCHES, SPRING HINGES, DOOR CENTRES, SURPLICE PINS, SAD IRONS,
ITALIAN IRONS, FINE CAST BOX IRONS, MAN TRAPS,
IMPROVED SINK TRAPS,
Hat, Coat & Umbrella Stands, Flower Stands, Garden Chairs,
SCRAPERS & DOOR PORTERS,
NEW PATTERN FLAT & BAR WEIGHTS,
French, Danish, and Three Legged Pots,
RICE BOWLS,
CAST LATH & WALL NAILS, SHOE BILLS & PINS.

GLENFIELD
PATENT STARCH,
USED IN THE ROYAL LAUNDRY,

Awarded HONOURABLE MENTION at the GREAT EXHIBITION of 1851,

And also Awarded the

PRIZE MEDAL,

By the Executive Committee of the Exhibition held at New-York in 1853.

THE LADIES are respectfully requested to observe that the GLENFIELD PATENT STARCH has been especially recommended on account of its

Superior Strength, Purity of Colour, and Transparency;

and the Manufacturer being possessed of various Testimonials from such *unquestionable authority* as the following, has great pleasure in submitting a few of them to a discerning Public, being assured that such *practical* Testimonials are the best proof of the high reputation which the GLENFIELD STARCH has acquired :—

TESTIMONIALS.

1st. From the Laundress to HER MAJESTY the QUEEN.

Mr. WOTHERSPOON, 40, Dunlop Street, Glasgow.

The GLENFIELD PATENT POWDER STARCH has now been used for some time in that Department of the ROYAL LAUNDRY where all the FINEST GOODS are Finished for HER MAJESTY, PRINCE ALBERT, and the ROYAL FAMILY, and I have much pleasure in informing you that it has given the highest satisfaction.

M. WEIGH, Laundress to Her Majesty.

Royal Laundry, Richmond, near London, 15th May, 1851.

2nd. From the LADY MAYORESS of LONDON.

The Lady Mayoress begs to thank Messrs. Pantin & Turner for a box of Glenfield Patent Double-Refined Powder Starch, manufactured by Mr Wotherspoon of Glasgow. The Laundress has reported the Starch to be of very Superior Quality, and the Lady Mayoress will have much pleasure in recommending it.

Mansion House, 31st July, 1849.

3rd. From the Laundress of the Right Honourable the COUNTESS of EGLINTON and WINTON, Lady of the Viceroy of Ireland.

I have much pleasure in bearing testimony to the Superior Qualities of the Glenfield Patent Double-Refined Powder Starch, which for Strength, Purity of Colour, and in giving a Clear, Elastic, and beautiful finish to Laces and Linens, I have never seen equalled.

(Signed) ELIZABETH REID,
Laundress to the Countess of Eglinton.

Eglinton Castle, July, 1849.

4th. Similar from the Laundress of the Most Noble the MARCHIONESS of BREADALBANE.

5th. Testimonial similar to the above from the Laundress of the Right Honourable the COUNTESS of DARTMOUTH.

6th. Also from the Laundress of the LADY of Lieutenant-General Sir HARRY SMITH, Bart.

7th. From the LADY of WM. CHAMBERS, Esq. of Glenormiston, one of the Publishers of "Chambers's Edinburgh Journal."

GLENORMISTON, December 25, 1850.

Mrs Chambers offers best thanks to Mr Wotherspoon for a package of Glenfield Patent Starch; and begs to say, that her Laundress, after Twelve Months' experience, considers this species of Starch by far the best she has ever used.

8th. From the MATRON of that excellent Institution, the "MANCHESTER FEMALE ASYLUM.' The well known superior manner in which Washing and Finishing is done at this Establishment enhances the value of this Testimonial.

FEMALE ASYLUM, EMBDEN PLACE,
MANCHESTER, March, 1849.

To Mr J. S. GREGSON, Agent for Glenfield Powder Starch,
71, Spear Street, Manchester.

Having used the GLENFIELD STARCH at this Establishment for more than Twelve Months, I have great pleasure in expressing my unqualified approbation of its excellent quality, and the beautiful finish it gives to Laces, Linens, &c.

SIGNED BY THE MATRON OF THE ASYLUM.

9th. From **WATTS' LAUNDRY**, Brighton (where about 60 hands are daily employed).

10th. From several Thousands of the Principal **GROCERS** in London, Manchester, Liverpool, Birmingham, Leeds, Halifax, Newcastle, Edinburgh, and Glasgow.

We, the undersigned, have been SELLING the GLENFIELD PATENT STARCH for some time, and find that it PLEASES our CUSTOMERS

BETTER THAN ANY WE HAVE HAD.

11th. The **GLENFIELD PATENT STARCH** was also specially noticed by the **JURY** of the **GREAT EXHIBITION** of 1851.

12th. From the **GREAT EXHIBITION** of **NEW-YORK.**

Exhibition of the Industry of all Nations, New York.
Office, No. 6 Charing Cross, London,
3d February, 1854.

SIR—The awards of the Juries arrived from New-York this morning; and I have much pleasure in announcing to you, that the BRONZE MEDAL has been awarded to you for Starch from East India Sago.—I am, Sir, yours, &c

JOHN H. BOHN.

R. WOTHERSPOON, Esq., Maxwellton House, Paisley.

The foregoing Testimonials are a conclusive proof of the excellencies of the GLENFIELD STARCH; which, like other productions of established reputation, intrinsic worth, and high public patronage, has, by its pre-eminent success, stimulated various unprincipled *parties* (unable to compete with its merits) *basely* to counterfeit its *name and appearances.*

The COURT of CHANCERY, however, by TWO INJUNCTIONS, (*vide* Wotherspoon *v.* Peverell; and Wotherspoon *v.* Milne; "*Times*" &c., of 29th and 30th July, 1852) has decided the Proprietors' indisputable right to the name and title of the "GLENFIELD PATENT STARCH," with the advantages attendant upon its well-earned approbation; and having by process of law established his position, will enforce the full penalty of

ONE THOUSAND POUNDS AND DAMAGES!

as expressed in the Injunctions, against ALL MANUFACTURERS, RETAILERS, and OTHERS, who hereafter attempt to deceive the Public with fraudulent and spurious imitations.

Purchasers are requested carefully to examine the *genuineness* of the packets; and the Proprietor will be thankful for information of any party who offers for sale *spurious imitations* of the GLENFIELD STARCH.

(COPY OF INJUNCTION.)

In Chancery.

THE GLENFIELD STARCH.

WOTHERSPOON AND OTHERS *v.* MILNE.

Victoria by the Grace of God, of the United Kingdom of Great Britain and Ireland, Queen, Defender of the Faith. To SAMUEL JOHNSTON MILNE, his Servants, Agents, and Workmen, greeting. We do hereby strictly enjoin and restrain you the said SAMUEL JOHNSTON MILNE, your Agents, Workmen, and others, under the penalty of ONE THOUSAND POUNDS, to be levied upon your and every of your lands, goods, and chattels to our use, from selling, or attempting to sell, any Starch under the name or designation of "GLENFIELD DOUBLE-REFINED POWDER STARCH," or any other name or designation similar thereto, or in colorable imitation thereof, or enclosed in wrappers similar to the wrappers used by the Complainants, or having labels with such devices and descriptions, device or description thereon as in the Complainants' Bill mentioned to be used by the Complainants, or any labels having devices or a device, descriptions or a description similar to or in colorable imitation of the labels used by the Complainants, until you the said Defendant shall fully answer Complainants' Bill, or our said Court make other order to the contrary. **Witness** *ourself at* WESTMINSTER *the tenth day of August, in the 16th year of our Reign.*

THE SEAL OF THE COURT OF CHANCERY.

ROMILLY, M. R.
S. C. WARD, C. R. & W.

Please notice that the GENUINE GLENFIELD STARCH has the Manufacturer's name *distinctly printed* on every packet; and Purchasers should preserve this circular, in order to detect attempts at deceiving them by palming off inferior and trashy imitations, made from potatoes, farina, &c., and put up in similar packages.

The GLENFIELD STARCH is put up in 1d., 2d., 4d., and 8d. packets, with full directions for use, and may be obtained through all respectable Grocers, Chemists, Oilmen, &c., in every town of the United Kingdom; in America, Canada, Australia, and all the British Colonies, and in nearly every place where the English language is spoken; and WHOLESALE of

WOTHERSPOON, MACKAY & CO., 66 Queen Street, Cheapside, London;
ROBERT WOTHERSPOON & CO., 40 Dunlop Street, Glasgow.

EXPORT ORDERS promptly Executed, and Packed by Experienced Workmen in a superior manner, each Package having enclosed some very handsome SHOW CARDS, BILLS, &c.

PARIS UNIVERSAL EXHIBITION, 1855.

S. STRAKER,

Manufacturer of the Improved

SIDE LEVER LITHOGRAPHIC PRESSES,

WITH OR WITHOUT

SELF-ACTING SPRING TYMPANS,

FOR AUTOGRAPHIC AND EVERY OTHER BRANCH OF LITHOGRAPHY,

80, Bishopsgate Within, London.

NO. 595. **NO. 595.**

These Presses, from their simplicity, will be found superior to any hitherto in use, possessing increased facilities for the execution of every class of Autographic Lithography; their efficiency, portability, and expeditious working qualities, have secured their general adoption in every part of England, as well as the Colonies.

MANUFACTURED IN VARIOUS SIZES.

NETT PRICES ON THE SPOT.

15 by 20	....	...	...	...	£	9	0	0
18 by 26	...	...	...	...		11	11	0
21 by 31	...	...	...	...		13	0	0
21 by 34	...	...	...	...		15	10	0

WITH SELF-ACTING SPRING TYMPAN, 12*s.* *to* 30*s.* *EXTRA.*

Export and Foreign Orders for every Article and Instrument in the Art.

Paris Universal Exhibition, 1855.

LITHOGRAPHIC DEPÔT

FOR PRESSES, STONES,

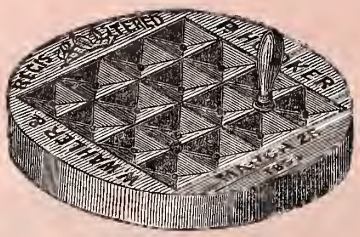
AND EVERY MATERIAL REQUIRED IN LITHOGRAPHY,

80, BISHOPSGATE STREET WITHIN,

LONDON.

TO LITHOGRAPHERS.

THE LEVIGATOR,

REGISTERED  MARCH, 1854.

FOR EFFECTUALLY

RUBBING OFF STONES PERFECTLY LEVEL,

AND

Equally adapted for every other Material requiring a mathematically level surface,

AT A

Saving of one-third the usual Labour and Time.

This important invention consists of a Metal Disc, mathematically levelled on its under surface, on the upper parts of which are quadrangular perforations, ending in a tubular form, which are supplied with sand and water, the same being subjected to a rotary motion by the handle, the continuous supply of the sand readily and effectually effaces the subject to be removed.

The BREAKAGE OF STONES so frequently arising, as it does, from the uneven performance of the ordinary method of grinding, being for the future avoided by the application of the Levigator, it is confidently introduced to the Trade as the most important machine yet invented; while, at the same time, it effects a great SAVING OF TIME AND LABOUR, it produces a mathematically level surface, with that ease, that it may be worked readily by a lad.

These Machines, the most useful invention yet introduced, have met with the universal approval of the Lithographic Trade, and have become generally adopted.

Prices—Small size, 12in. diameter, 40s.; large ditto, 15in. diameter, 50s.

S. STRAKER'S

LITHOGRAPHIC PRINTING ESTABLISHMENT,

80, BISHOPSGATE WITHIN, LONDON.

Mercantile Establishments, Public Companies, &c., adopting Lithography, furnished with every requisite Material and Instrument, together with any practical assistance required. Estimates rendered.

NO. 341. CLASS V. SECTION 1.

PARIS EXHIBITION, 1855.

WILLIAM D. JONES,

SADDLER, HARNESS, & CAP MANUFACTURER,

NO. 5, HIGH STREET,

SHREWSBURY,

ESTABLISHED UPWARDS OF 50 YEARS,

Respectfully solicits the attention of visitors to the elegant Race Saddle in above Class, and exhibited by him at the Dublin Exhibition, 1853; when the following handsome testimony of it appeared in the *London Morning Post:*

"*Foremost* in the list of exhibitors for beautiful workmanship stands the name of Mr. W. D. Jones, of No. 5, High Street, Shrewsbury. This gentleman shows a very elegant racing saddle, designed and manufactured by himself, and exhibited for its extreme lightness, its comfort combined with elegance of shape, and the novelty of its embellishments. The saddle is little if anything more than 2lbs. in weight, though of course, that can always be increased to please the customer---it is sufficiently long in the seat to give the greatest ease to the rider, and it is embellished with bunches of roses, thistles, and shamrocks, interwoven with oak foliage and acorns---the whole of the ornamentation being executed in relief by hand labour only. The case containing this beautiful saddle is always surrounded by large numbers of the higher class of visitors to the Exhibition, to whom it appears to give universal satisfaction. Mr. Jones was an exhibitor in Hyde-Park, of the Royal Albert Shot Belt, which is very highly approved, and extensively used by those classes who take a delight in the sports of the field."

W. D. J. begs to call particular attention to his *very superior Hunting, Steeple Chase*, and *Race Saddles*, from 2lbs. weight and upwards. *Gig, Tandem*, and every other description of *Harness, Hunting* and *Racing Horse Clothing. Ventilated Hunting*, and *Steeple Chase Caps. London Whips* and *Brushes*, &c. &c.

W. D. J. gratefully acknowledges the kind patronage he has experienced from the Nobility, Gentry, and the Public in all parts of the United Kingdom, and assures them that the same attention is paid in every department (to ensure good workmanship and materials) which has for so long a period been the distinguished character of this establishment, and as his primary object is to make the best articles and to charge the lowest price that the superiority of the work will allow, he trusts it will secure to him a continuance of those esteemed favors he has hitherto received.

Jones's Improved Greyhound Slips, Shot Belts, Retriever Starters, and Game Carriers, are patronized by some of the first sportsmen in the United Kingdom; Testimonials of which from several noblemen and others will be supplied upon application. For further particulars and opinions of the above, see *Journal of Royal Agricultural Society of England, Sunday Times, Eddowes's Shrewsbury Journal, Bell's Life, Hereford Journal,* The *Era, Shropshire Conservative, Shrewsbury Chronicle, Hereford Times, Dundalk Democrat, Ulster Gazette, Limerick Chronicle*, &c. &c.

PATENT CONDENSER OR ENDLESS CARDING ENGINE FOR WOOL,

& SELF ACTING FEEDER FOR ANY SECOND OR FINISHER CARDING ENGINE.

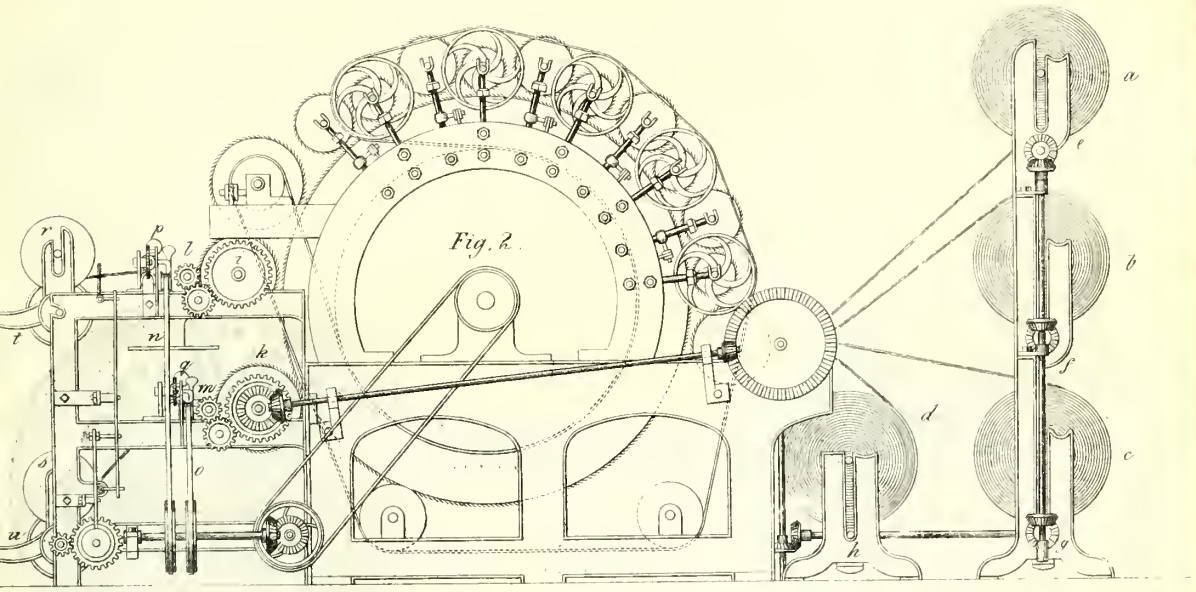
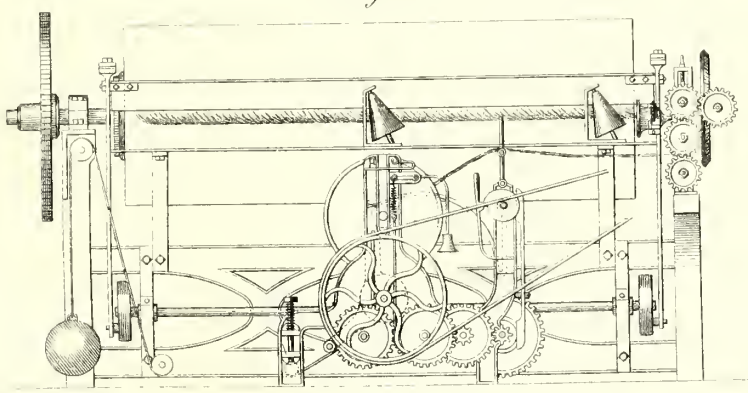


Fig 1



by John Mason

GLOBE WORKS, *Rochdale near Manchester*

MAKER OF ALL MACHINES FOR PREPARING AND SPINNING COTTON, WOOL AND SILK

Council Medal,

1851.

The advantages of this system consist in a great economy of labour, three operations being dispensed with, viz., *Feeding, Piecing, and Slubbing*,—and in the yarns being more regular and level than those produced by the ordinary method.

In many of the first attempts to produce endless cardings, the machines being fed by hand, the slubbings were not regular. The Self-feeder has completely remedied this defect; and by its use a quantity of wool can be placed at the feeder of the second engine that will serve a day, or any smaller portion thereof, and require little attention.

An equal, and in some cases a greater, quantity of work is turned off. The threads are more nappy, which increases the felting quality in milling, causes a firmer texture in the cloth, and a corresponding fulness of bottom and richness of appearance not attained by the methods formerly in use.

For Warps, it is only necessary to double the slivers of wool upon an intermediate engine, and draw the slubbings more in the Condenser and Mule, to obtain that straightness of fibre which gives strength to the thread.

Both the Self-feeder and Condenser Machines are portable, readily applied to old engines, occupy no more room, and do not require short-time hands to work them.

The Condenser is made with one, two, or three doffers, according to the quality of the work required; but each plan differs from any other in the superior manner of removing the wool from the doffer-cylinder by a stripper-roller, by which means the slubbings can be produced finer, so as to spin better, with less breakage and waste, both at the engine and mule. It also enables parties to work any description of wool, without being confined to a particular kind that will suit the machine.

The one-doffer plans do not require any of the old parts of the engine to be removed.

The Condenser, or Endless Carding System, reduces the operations to two of the simplest and most economical forms, viz., *Carding and Spinning*. The failure of some methods intended to obtain a similar result, and the prejudice caused thereby against all, may be considered the causes of its not being as generally adopted in this country as it is on the Continent and in the United States.

The following Firms are selected from a number; some of them have had these plans at work for seven or eight years :—

	CONDENSERS.	FEEDERS.
Messrs. Kelsall & Bartlemore, Rochdale	7	5
,, E. Elliott & Brothers, ,,	6	5
,, J. & R. Tweedale, ,,	5	
Mr. James Ashworth, Acre Mill, Bacup	8	
Messrs. John Edwards & Sons, Halifax	9	9
,, William Henry Rawson & Co., Halifax	6	6
,, John Crossley & Sons, ,,	5	5
,, John Shaw & Sons, Stainland	4	2
,, R. R. Whitehad & Brothers, Royal George Mills, near Manchester	4	2
Mr. Ephraim Hallum, Cotton Spinner, Stockport	15	
Messrs. Fox Brothers & Co., Wellington	9	16
,, John Leach & Sons, Rochdale	4	4
,, Joshua Radcliffe & Co., Rochdale	2	4
,, William Waller & Brothers, Cotton Spinners, Charlesworth	6	
Mr. Robert Thatcher, Cotton Spinner, Oldham	3	
,, Richard Caunter, Ashburton, Devon	2	
Messrs. John Crofts & Co., Leeds	2	2
,, John Ashworth & Sons, Rochdale	1	2

DESCRIPTION OF THE MACHINES.

In Figure 1, the wool is shewn removed from the doffer of the first Carding Engine by a comb, as usual; passes through a revolving tube at the side of the frame, which imparts to it an amount of false twist. It is drawn through the tube by a pair of rollers, and returned between a lower pair to the small Lap Machine in front of the Engine, which is arranged to form a lap of sliver 16 inches diameter, and 4 or 5 inches wide. When the required length of sliver is wound on, notice is given by a bell, and if not attended to another movement doffs the lap, so as to ensure each one being of the same uniform length.

A number of these narrow laps is placed side by side, so as to form four rows, seen at (*a*, *b*, *c*, *d*, Fig. 2), each row being the whole width of the Engine, and are turned off into the Engine by the unlapping rollers (*e*, *f*, *g*, *h*); each sliver passes through a separate guide as it enters the feed rollers, to keep it in its proper place.

The wool having passed through the engine and been carded in the usual manner, is removed from the main cylinder in the form of endless bands or slivers by the condenser doffers (*i*, *k*), which are provided with rings of card and alternate blank spaces, so that the wool which is left upon the cylinder by the top doffer is removed by the lower one.

The stripper-rollers (*l*, *m*), take these bands of wool from the doffers, after which they pass between the doubled endless twisting straps (*n*, *o*), or between rubbing rollers, for the purpose of receiving a degree of false twist or condensing sufficient to enable them to carry forward to be spun.

They then pass between the delivering rollers (*p*, *q*), to the bobbins (*r*, *s*), on which they are lapped by friction of contact with the drums (*t*, *u*). When the bobbins are filled, they are removed direct to the Mule to be spun, where they are turned off in a similar manner by drums.

N.B.—In addition to the method of doubling and equalizing the slivers upon an intermediate Engine, one is also obtained upon the Condenser Engine itself, by having twice as many slivers entering the feeding rollers as there are threads proceeding from the condenser end.

The Self-feeder is as applicable to the ordinary Carding Engine for Rolls as it is to Condenser Engines.

(Over)

SELF-ACTING MULE FOR WOOL.

ROBERTSON'S PATENT.

The general advantages of a Self-acting Mule are economy of Labour and a better form of Cops.

The peculiar advantages of this Self-acting Mule are simplicity of Construction, facility of Adjustment, and ease and rapidity in the Changes.

The principal feature in it is the Tin Roller Band, which is so put on as to turn the Spindles when the Carriage is coming out; to back off and take the Carriage in; and to turn the Spindles when the Carriage is going in. By this arrangement, all Breakages arising from a multiplicity of parts, operating as reversing Motions, are avoided, for the Band always runs in the same direction, whether the Carriage is coming out or going in.

The delivery of Slubbings by the Rollers can be varied without having a Nut or Bolt to unloose, and can be adjusted to one-quarter of an inch in length.

The quantity produced by this Machine exceeds that by the Hand Mule about per cent.

It is easily managed and tented, for one Manager may take charge of a dozen pairs of them.

N.B.—By an extra arrangement with two Cone Drums, the Twist is altered without stopping the Mule, and also regulated to a greater nicety than by a Change Wheel; and the Twist put into the Slubbings during the time the Rollers are delivering, can be adjusted on *this* Mule without affecting the Twist in the remainder of the Stretch: this is a special advantage in spinning Condenser Slubbings.

May be seen at work by applying to

JOHN MASON,

Globe Works, ROCHDALE.

MASON'S

PATENT SLUBBING & ROVING FRAMES.

The object of this improvement is to give a firmer support to the Spindles, and obtain greater speed and steadiness. This is accomplished by making the Collar in the Lifting Rail longer, continuing it through the Pinion Wheel, up the inside of the Bobbin Barrel to the top thereof, where the bearing for the Spindle is formed, as shown at *(a)* Figs. 1 and 2.

Frames constructed on this principle have been at work four years, running upwards of 50 per cent. faster, and producing an increase of work in the same ratio. They require *less outlay, less room, power*, and *attention* (to produce a given quantity,) and are less liable to get out of repair, because the vibration of the Spindle is prevented, and that injurious action which takes place upon the Collar and Spindle when the bearing is so much below.

In order to reduce the friction still more, the Collar is made with a recess or hollow chamber inside, so that the Spindle only fits at the end. The Bobbin at its upper end runs on the Spindle *as usual*, and is prevented rubbing upon the outside of the Collar, by being made to pass at its lower end upon a Flanch, which projects from the top of the Pinion Wheel. Thus, the Bobbin entirely covers the Collar—protects the bearing from injury by dust or other matter—and causes it to require *less oil.*

The top of the flyer is left clear for piecing up and doffing; and as the Spindle works in two rails only, as usual, there is no difficulty to contend with, requiring a greater degree of truth, or causing more friction upon the Spindle.

The difference between this mode and the best arrangement of Collar previously used, is shown at Figs. 2 and 3, the bearing for the Spindle in the one being at *(a)*, and in the other at *(b)*,—a difference equal to the length of the lift (say 10 inches in Slubbing and 7 inches in Roving Frames), in favor of this Patent, the effect of which is evident in greater steadiness of the Spindles, less friction upon them, and diminished wear and tear.

These advantages are much more manifest after the Machines have been some time at work, when instead of having to reduce the speed, it is generally increased a little.

Although the Bobbin Barrel is about $\frac{5}{16}$ in. larger in diameter, it is not found to be a disadvantage; the Frame starts better upon the empty Bobbin, and a trifling addition to the diameter, when full, will hold the same length of Slubbing or Roving. Frames upon the old system are easily altered; the same Bobbins may be made to answer by reducing the diameter of the Spindles (making them true again), and widening the inside of the Bobbin Barrels to receive the Collars.

N.B.—This invention has been mistaken for a loose Tube, running with the Pinion Wheel, and projecting inside the Bobbin, used for keeping the Bobbin clean and preventing it wearing. It is, therefore, as well to add, that the Collar *(a)* is a fixture, firmly screwed down to the Lifting Rail for steadying the Spindle at its upper end, and the Pinion Wheel and Bobbin run loosely round it, as represented.

They are working at the following Speeds with great advantage:—

Slubbing,	12-inch lift.....	700	Revolutions.
Ditto,	10 ,, ...	800	,,
Intermediate,	8 ,, ...	1000	,,
Roving 6 and	7 ,, ...	1200 to 1400	,,
Ditto	5 ,, ...	1600 to 2000	,,

The Spindles and Flyers are no longer the limit to the speed of the Machine,—they may be run much quicker when required; but, whether high or ordinary speeds be preferred, they run more steadily and produce better work.

The Separating Plates *(c)* prevent any of the ends, when broken, becoming entangled with the others, and making waste.

The Bobbins are made to pass over the junction of the Spindles and Flyers, so that one-inch longer lift is obtained in the same length of Flyer.

Council Medal,

1851.

PRODUCT.

Slubbing	¾	Hank...	75 lbs.	per Spindle, per Week of 60 Hours		700 revols. per minute	–12 in. lift
„	1	„	64	„	„	800 revols. per minute	–10 in. do
Roving	2	„	26	„	„		
„	2½	„	22	„	„	1200 to 1400 revols.	– 7 in. do.
„	3	„	18	„	„	per minute.	
„	4	„	12	„	„		
„	5	„	10	„	„	1400 to 1800 revols.	– 6 in. do.
„	6	„	9	„	„	per minute.	
„	7	„	8	„	„		
„	8	„	7	„	„		
„	10	„	5¼	„	„	2000 revols per minute	– 5 in. do.
„	12	„	3¾	„	„		
„	14	„	3	„	„		
„	16	„	2½	„	„		

A LIST OF SOME OF THE PARTIES WHO ARE USING THESE SLUBBING AND ROVING FRAMES, VIZ.:—

BACUP AND NEIGHBOURHOOD.

BUXTON JAMES, Leavengreave.
HARGREAVES JAMES Facit.
HOYLE JOSHUA, Bacup.
LORD JAMES, Shawforth.
SLEATH WILLIAM JAMES, Bacup.
SMITHSON BROTHERS, Facit.
WHITWORTH E. AND W., AND CO. Ditto.
WHITWORTH JOHN, Ditto.

BOLTON.

BARNES THOMAS AND CO., Farnworth Mills.
ECCLES WILLIAM AND SONS, Wigan.
GARRINGTON THOMAS J., Preston.
LIGHTOLLER T. AND CO., Chorley.
TIPPING WILLIAM, Wigan.

BURNLEY.

ASHWORTH JAMES HENRY AND CO., Rawtenstall.
ASHWORTH RICHARD AND CO., Ditto.
BECK THOMAS AND CO., Addingham, near Otley.
BRACEWELL CHRISTOPHER AND BROTHERS, Gargrave, near Skipton. [Burnley.
DUGDALE JOHN AND BROTHER, Lower House, near
FEILDEN AND JACKSON, Blackburn.
HARDMAN BROTHERS, Rawtenstall.
HARTLEY, LORD, AND ARMISTEAD, Colne.
HOPWOOD WILLIAM, Burnley.
LAW JOHN.
ROBERTS JAMES AND WILLIAM, Burnley.
SHACKLOCK RICHARD AND SONS, Embsay, near Skipton.
SPENCER AND MOORE, Burnley.
WHITEHEAD THOMAS AND BROTHERS, Rawtenstall.

GLASGOW.

BROWN, THOMPSON, AND CO.
CLARKE JOHN, Jun, AND CO.
FINLAY JOSEPH AND CO.
FREELAND JOHN AND CO.
GALBRAITH A. AND A.
GILKISON ROBERT AND CO.
GRANT GEORGE AND SON.
HOULDSWORTH WILLIAM AND JOHN.
HOWARD AND Mc. DONALD.
JOHNSTON, GALBRAITH, AND CO.
MC FARLANE ROBERT.
MC LEAN WILLIAM.
MC NAUGHT PATRICK AND CO.
MILE END SPINNING CO.
MUIRHEAD JAMES.
ORR JAMES AND CO.
SALMON AND STRUTHERS.
SCOTT WILLIAM, INGLIS, AND CO.
SIMPSON WILLIAM AND SONS.
SLOAN J. AND D.
STEVENSON WILLIAM AND SONS.
THOMPSON ROBERT AND SONS.
TODD AND HEGINBOTHAM.
TWIGG JOSEPH.

HEYWOOD.

CHADWICK H. AND J.
FENTON, SCHOFIELD, AND CO., Hooley Bridge.
HARDMAN THOMAS AND ADAM.
HARGREAVES JOHN.
HARTLEY WILLIAM AND SONS.
LORD JOHN.
MILLS JAMES.
MILLS DAVID.
NORRIS BROTHERS.
RADCLIFFE THOMAS AND CO.
WILD JOHN AND SON.

MANCHESTER.

BEAVER HUGH.
BIRLEY RICHARD AND CO.

MANCHESTER.

HAWORTH BROTHERS AND CO.
HOLME AND CUNLIFFE.
LANGWORTHY BROTHERS AND CO., Salford.

OLDHAM.

CLEGG JOHN, High Crompton.
CLEGG JOHN AND JOSEPH, Shaw.
HINCHLIFFE GEORGE, Jun. Hollinwood.
MILNE EDWARD AND THOMAS, Oldham.
SCHOFIELD JAMES AND SONS, Ditto.
TRAVIS JOHN, Shaw.
WHITAKER HENRY AND SONS, Royton.

ROCHDALE.

ASHWORTH GEORGE AND SONS, Rochdale.
BRIERLEY ABRAHAM AND SONS, Ditto.
BRIERLEY JAMES AND CO., Ditto.
BUTTERWORTH CHARLES AND SONS, Ditto.
BUTTERWORTH JOSEPH AND SONS, Ditto.
COLLINGE ROBERT, Rochdale.
CONSTERDINE AND KERSHAW, Littleborough.
FIELDEN ROBERT, Walsden.
HAMPSON JAMES, Rochdale.
HASTINGS WILLIAM AND CO., Ditto.
HAWORTH HOWARTH AND SON, Healey.
HEALEY ROBERT AND BROTHERS, Small Bridge.
HURST JOHN, Littleborough.
KING JAMES AND SONS, Rochdale.
LIVSEY THOMAS, Rochdale.
MILNE, AND WILD, Burnedge.
PILLING JAMES AND SONS, Rochdale.
RICHARDSON T. S. AND CO., Rochdale.
SCHOFIELD JOSEPH AND CO., Littleborough.
SUTCLIFFE JAMES AND CO., Rochdale.
TWEEDALE JAMES, Clegg Hall.
TWEEDALE JOHN AND SONS, Broadley.
WOOLNER THOMAS AND BROTHERS, Blue Pits.

STOCKPORT.

ASHE JOHN, Jun., Stockport.
HALLUM EPHM., Ditto.
KERSHAW, LEESE, AND CO.
SIDEBOTTOM EDWARD AND SONS, Stalybridge,

SOWERBY BRIDGE AND HEBDEN BRIDGE.

CROFTS JOHN AND CO., Leeds.
GREENWOOD WILLIAM, Cragg, near Halifax.
HINCHLIFFE GEORGE, Sen., Cragg, near Halifax.
HINCHLIFFE HINCHLIFFE, Ditto.
HORSFALL WILLIAM AND SON, Hebden Bridge.
HORSFALL JOHN, Jun., Ditto.
KNOWLES AND SUTCLIFFE, Todmorden.
LACY BROTHERS, Ditto.
LEAROYD J. AND J., Sowerby Bridge.
RADCLIFFE JOHN, Ditto.
SUTCLIFFE JOHN AND SON, Ovenden.
WHITELEY JOHN, Rippondon.
WOOD SAMUEL AND SON, Sowerby Bridge.

UNITED STATES.

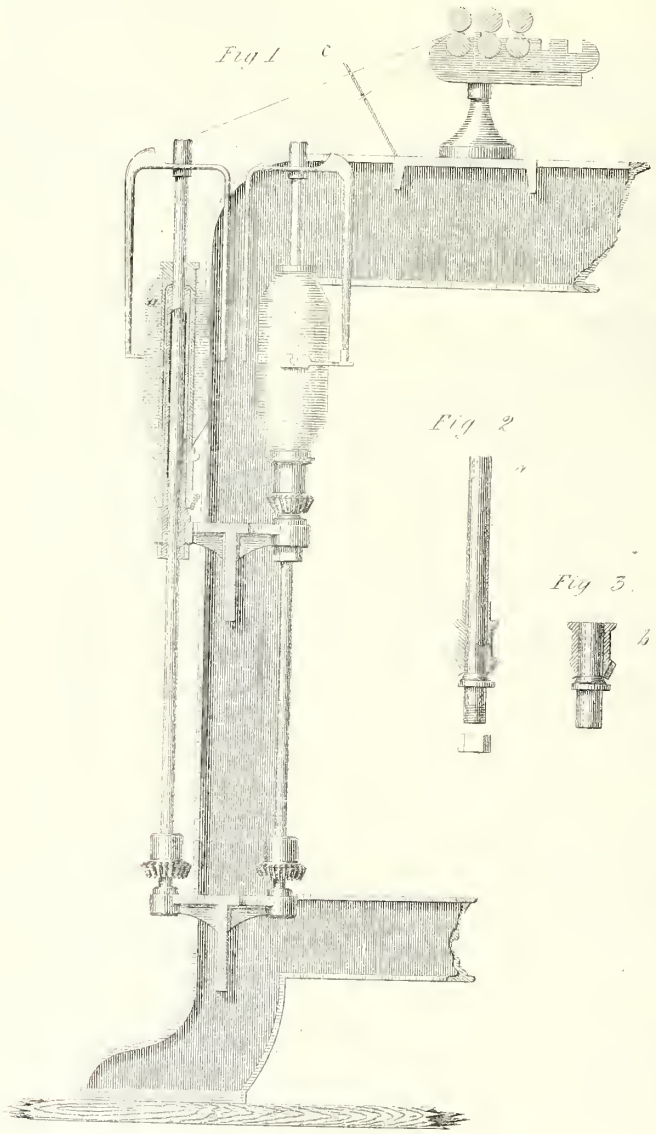
CARPENTER JEREMIAH, Valatia.
CHADWICK W. N., Cohoes.
HARMONY MILLS CO., Ditto.
NORWICH FALLS CO., Connecticut.
WILD JAMES AND BROTHER, Darby Creek.

CONTINENT.

CANNEL J. P. J. AND CO., Barcelona.
GRADNER AND SCHWARZ, Vienna.
MEYER A. AND CO., Hanover.
GRAND RY AND POSWICK, Verviers.
PONGS J., Jun., Gladbach.
RUSSIAN SPINNING CO., St. Petersburg.
IMPERIAL GOVERNMENT MILL, Alexandrofsky, near Ditto.

PATENT SLUBBING & ROVING FRAMES,

FOR SOFT OR PRESSER BOBBINS,



Ey. Ekin. Mason

GLOBE WORKS. Rochdale

& Manchester

Makers of all Machines for Preparing & Spinning

COTTON WOOL & SILK

List of Prices of Linen Threads.

THREADS MADE UP IN ANY STYLE WITHOUT EXTRA CHARGE

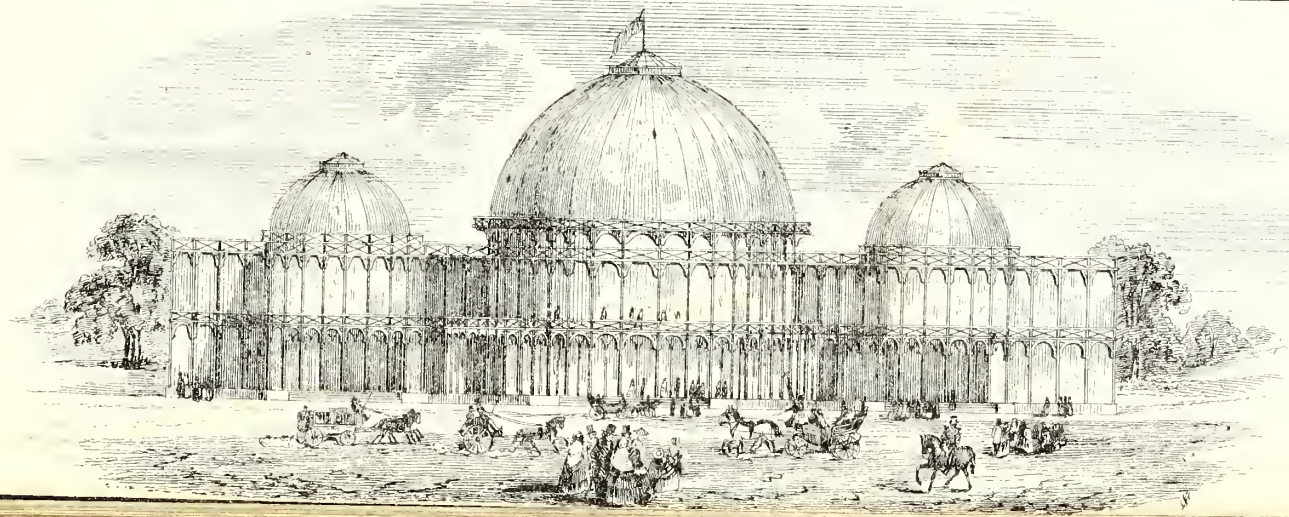
NO EXTRAC FOR OU IMPROV PATEN SOFT SATIN FIN

Colored Linen Threads Per Dozen or 12 lbs.

Nos	12	14	16	18	20	22	25	28	30	35	40	50	60	70	80	90	100	120	140	160	200
BEST QUALITY.	18/6	19/6	20/6	22/-	24/-	26/-	28/-	29/6	31/-	36/-	41/-	48/-	56/-	63/-	69/-	78/-	86/-	104/-	129/-	151/-	226/-
A QUALITY.	15/6	16/6	17/6	18/6	19/-	20/-	22/-	23/6	25/-	29/-	33/-	40/-	47/-	54/-	60/-	...	...	...	...	...	...

Bleached Linen Threads Per Dozen or 12 lbs.

Nos	12	14	16	18	20	22	25	28	30	35	40	50	60	70	80	90	100	120	140	160	200
BEST QUALITY	...	...	24/-	26/-	28/-	30/-	33/-	...	36/-	41/-	47/-	55/-	63/-	71/-	78/-	86/-	95/-	114/-	141/-	172/-	250/-
A QUALITY.	...	...	22/-	23/-	24/-	26/-	29/-	...	32/-	37/-	43/-	51/-	59/-	67/-	74/-	82/-	91/-	...	...	...	...



WILLIAM DARGAN & CO

Flax & Linen Yarn Manufacturers

CHAPELIZOD MILLS

DUBLIN.

CHAPELIZOD NEAR DUBLIN.

BOXES OR WRAPPERS NOT CHARGED

SINGER & GREEN,

VAUXHALL POTTERY, *LONDON.* & CLIFFE POTTERY, *NEAR GRAVESEND.*

Manufacturers of Improved Chemical Ware, Terra Cotta Mosaic Pavement, Fire Clay Work, & Drain Pipes for sanitary purposes.

OFFICES, High Street, Vauxhall, LONDON.

ESTABLISHED UPWARDS OF 150 YEARS.

	2 2½	1 Gal	2	3	4	5	6	
Common Shape Bottles	5d	7d	1/2	1/9	2/4	2/11	3/6	each
do do packed in white wicker	1/	1/3	2/	2/9	3/6	4/3	5/	"
do do packed in brown wicker	10d	1/	1/8	2/3	2/10	3/6	4/6	"

	1	2	3	4	6	9	12	
Filter Filterers	7/9	9/	11/3	15/	18/9	27/	33/	each
do do packed in wicker	6/9	9/	11/3	15/	18/9	26/3	30/	
for Ships use								

The number of Gallons denotes what each Filter contains they will purify 5 times the quantity of water they can filter in one day.

Stone Casks.

Plain up to 6 Gals	1/	per Gall.
do above	1/2	do
Ornamented Oval	1/2 to 1/6	do

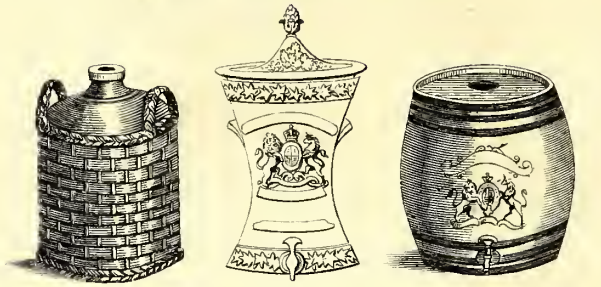
	½ lb.	1 lb.	2	3	4	6	
Jam Jars	1/	1/6	2/6	3/6	4/6	6/	per doz

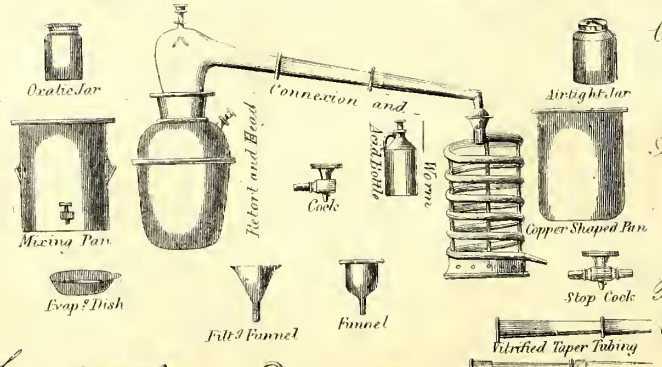
	¼ pt.	½ pt.	1 pt.	1 qt.	3 pt.	2 qt.	3 qt.	1 Gal
Jung Jars for Pickles &c	1/3 upwards	1/6	2/	3/	4/	5/	6/	7/ per doz

	1 oz	2	3	4	8	1 lb	2	3	4	6	8	12	16	
Extract Pots for Drugs &c	8d	10d	1/	1/3	1/6	2/	3/	4/	5/	6/	7/	10/6	14/	per doz

	¼ pt.	½ pt.	1 pt.	1 qt.	3 pt.	2 qt.	3 qt.	1 Gall.
Flat Bottles	2/	2/6	3/6	4/6	6/	8/	9/	10/ per doz

	1 qt.	6 to Gal	1 pt.	12 to Gal	½ pt.	Gingers
Ale Porter & Ginger Beer Bottles	30/	24/	20/	18/	10/6	per Gross.





Chemical Apparatus.

Retorts, Receivers, Store Jars, Mixing Pans Copper Shape Pans &c

Up to 20-Gn. 1/- pr Gn. Larger sizes on every Gallon in excess of 20 gal. 1/6 pr Gal.

Pans of any shape made to order

Still heads up to 6 in 1/6 per in. above 1/2 per inch

Worms	No.	1	2	3	4	5	6
	Each	1/6	2/-	4/2	6/3	8/4	10/5

Connectors from 2/6 each Syphons from 2/- each

Dip Arms	24 in.	30 in.	36 in. long
	4/-	5/-	6/- each

Acid Jugs	1 qt	3 pt	2 qt	3 qt	1 Gn & upwards
	/4	/6	/7	/8	/10 per Gn.

False arms 2/6 3/- & 3/6 each

Cocks for receivers	½in.	¾in.	1in.	1¼in.
	2/6	4/-	7/6	10/6

Piping warranted to stand Acid	1	2	3	4	6	9	12	15	18 in bore
	/3	/4	/5	/6	/8	1/½	1/10	3/-	4/- pr foot

One foot extra charge for each juncture

Taper pipes half price extra

Funnels & Ladles	½pt	1pt	1qt	3pt	2qt	3qt	1 G
	/4	/6	/8	/10	1/-	1/3	1/6

Evap.g Dishes	In.	1	2	3	4	6	8	10	12	15	18	21	24
	Ea	/2	/3	/4½	/6	/9	1/	1/3	2/-	2/6	4/6	7/-	8/-

Patent Spherically Ground Air tight Jars 1 qt 2 qt 3 qt 4 qt 6 qt 2 Gn

1/ea 1/6 ea 1/9 ea 2/- ea 2/6 ea 4/6 per

Crates 1/6 & upwards. 1/3 allowed for returned Packages when receiv

SINGER & GREEN,

VAUXHALL POTTERY, *LONDON.* & CLIFFE POTTERY, *NEAR GRAVESEND.*

Manufacturers of Improved Chemical Ware, Terra Cotta Mosaic Pavement, Fire Clay Work, & Drain Pipes for sanitary purposes.

OFFICES, High Street, Vauxhall, LONDON.

ESTABLISHED UPWARDS OF 150 YEARS.

Straight Pipes with Socket Joints.

In 3 feet lengths.

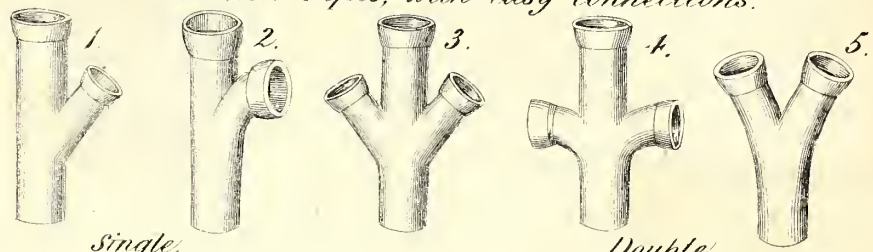
1 in.	1½ in.	2 in.	2½ in.
3d.	3½d.	4d.	4½ per foot.

In 2 feet lengths.

3 in.	4 in.	6 in.	9 in.	12 in.
5d.	6d.	8d.	1/1½	1/10d.

15 in.	18 in.	24 in.
3/-	4/-	per foot.

Junction Pipes, with easy connections.



Single.

2 in.	3 in.	4 in.	6 in.	9 in.	12 in.	15 in.	bore of main pipe.
1/-	1/3d	1/6d	2/-	3/6	5/6	7/6	each.

Double.

2 in.	3 in.	4 in.	6 in.	9 in.	12 in.	15 in.	bore of main pipe
1/4d	1/8d	2/-	2/8.	4/6.	7/-	12/-	each

Bends.

Quarter Circle. 6.

Radius of 6 feet. 7.

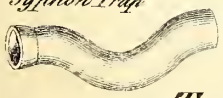
8.

2 in.	3 in.	4 in.	6 in.	9 in.	12 in.	15 in.	18 in.
1/-	1/3.	1/9.	2/3.	3/6.	5/6.	7/6.	10/ each

Water Closet Pans,

Of Improved White Glazed Stone Ware.

9. *Long Syphon Trap*



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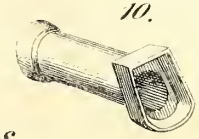


11.

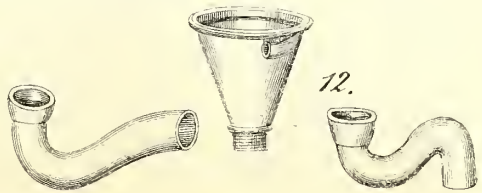
Traps with Metal Flaps.

2 in.	3 in.	4 in.	6 in.	9 in.	12 in.
2/-	2/6.	3/6.	5/-	7/6.	10/ ea.

Syphon Trap with Grating.

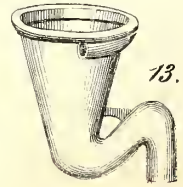
2 in.	3 in.	4 in.	6 in.	9 in.
4/-	4/6	5/-	6/-	7/6 ea.

12.



With Trap separate, 5/6 each.

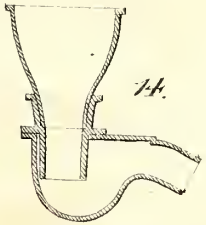
13.



With Trap attached, 5/6.

2 in.	3 in.	4 in.	6 in.	9 in.
3/-	4/-	5/-	8/-	13/ each

14.



In three parts for Prisons, &c. 10/6.

For Filters, Chemical Ware &c and prices see former page.

TO THE NOBILITY AND GENTRY.

THE CREMERIAN BOOT,

FOR GENTLEMEN.

In submitting the above invention, the manufacturers respectfully solicit the attention of Gentlemen who study appearance and comfort in this important article of dress. The chief feature in which is the introduction of a piece of cork, of greater or less thickness at the heel gradually reduced from the under surface so as to form an arch; a bent spring is inserted between the soles, to preserve the curve, the same may be worn with perfect ease and comfort, unknown to all observers.

It will be seen that the height of the heel, regulated by the cork inside, can be made to the desire of the wearer, without in any way altering (unless by improving) the external appearance of the Boot.

These Boots, (adapted to all wearers, and notwithstanding their many improvements, are *not dearer than ordinary Boots,*) especially deserve the attention of Military Gentlemen, as they raise the wearer, and from their permanent excellence of shape, no other equals them in elegance of appearance, particularly on horseback.

For *Peculiarities, Advantages,* &c., see other side.

LIST OF PRICES.

GENTLEMEN.

	CASH PRICE. £	s.	d.	BOOKED DITTO. £	s.	d.
Ordinary Ancle Boots (Seamless)	0	16	0	1	0	0
Cremerian ditto ditto	1	0	0	1	4	0
Ditto with Button or Elastic Sides	1	2	0	1	6	0
Ditto ditto Patent Leather Gallashes	1	4	0	1	8	0
Ordinary Wellington Boots (French Calf)	1	1	0	1	5	0
Cremerian ditto with best Bordeaux Fronts, Improved French Tongues, and Enamel or Morocco Legs	1	6	0	1	10	0
Ditto with Kid or Patent Leather, French Tongues	1	10	0	1	14	0
Extras on high Corks, &c	0	5	0	0	6	0

Ladies and Gentlemen waited upon with Specimens at their own Residence.

Communications will meet with prompt attention, if addressed to Cremer & Co., Manufacturers and Patentees, Old Kent Road; or

PORTLAND BAZAAR,

REGENT STREET.

TO THE NOBILITY AND GENTRY.

THE CREMERIAN BOOT,

FOR LADIES.

THE intention of this Boot is to give an improved appearance and increased comfort, durability, and permanency of shape.

To accomplish these objects, it is differently made from any other Boot.

The arch of the Waist, and height of the Instep, is not dependent on the shape of the foot, being artificially, but *imperceptibly* attained by a piece of cork, which reaches from the Heel to the Waist of the Boot, cut into the proper form from the under side, leaving the upper surface perfectly even for the foot to rest upon. The arch is prevented from ever giving way, by a slight curved spring placed under it. The Boot thus made can never change its shape,—presenting always that great desideratum, a hollow Waist and high Instep.

Ladies are respectfully invited to note the *Peculiarities* and *Advantages* of this invention, viz.—

PECULIARITIES.	ADVANTAGES.
A self-adjusting flexible Waist,	To elevate the Wearer,
A small, firm, level Heel,	To improve the Instep,
A light, narrow, seamless Forepart,	To produce an arched or hollow Waist,
A new mode of binding, lacing and Fitting.	To give a symmetrical form to the Foot.

Numerous Specimens shown and Illustrations given in support of *all* the "Peculiarities" enumerated above.

LIST OF PRICES.

LADIES.	CASH PRICE. £	s.	d.	BOOKED DITTO. £	s.	d.
Ordinary Cashmere Boots (Spring Waists)	0	8	0	0	10	0
Cremerian ditto ditto	0	10	0	0	12	0
Ditto with Military Heels	0	12	0	0	14	0
Ditto Kid, Morocco, or Patent Leather	0	14	0	0	16	0
Ditto, Silk, Satin, or Coloured Leather	0	16	0	0	18	0

Ladies and Gentlemen waited upon with Specimens at their own Residence.

Communications will meet with prompt attention if addressed to CREMER & Co., Manufacturers and Patentees, Old Kent Road; or

PORTLAND BAZAAR,

REGENT STREET.

DEVLIN'S

"EXHIBITED" BOOTS AND SHOES.

"That very clever son of Crispin, Mr. J. Dacres Devlin, whose ingenious little publications on his craft of shoemaking have frequently had notice in this journal, sends us the prospectus of a book he is about to publish by subscription, called the "Critica Crispiana."—*Examiner.*

J. Dacres Devlin not having taken any share, as a practical Shoemaker, in the Great Exhibition of 1851, in consequence of going to America as the correspondent, on the subject of the then extensively carried on Emigration of the Working Classes, for one of the London daily newspapers; nevertheless, as he got back in time to see and take note of all the Boots and Shoes which were sent there by others, so, unwilling that the new display of Industrial Rivalry which is now just commencing in Paris, should be allowed to pass away without making some exertion in behalf of the reputation of his 'craft' at home, he has had his name entered as one of the Exhibitors; and yet not positively as regards himself individually, but the Trade as a whole, inasmuch, that while other parties appear solely as the contributors of articles of their own production or property, J. D. D. has, with one exception alone, but assumed the humble office of Collector—searching out from among the Operatives themselves the best talent, and offering himself as the medium by which such ability might not only have some chance of a deserved recognition in the great European capital of Paris, but be of much help towards securing, for long afterwards, a general good name for the British Boot and Shoe trade—superior skill in the workman being, especially in a manufacture of this description, one of the most essential helps to the superiority of the Article, whether in respect to its durability, elegance, or any other perfection.

With this view, then, did he fill up in the manner he thought the most proper, the Form which came to him for such purpose from the French authorities; but, as doubtless the statement so made will be considered too lengthened for insertion in the Official Catalogue of the Exhibition, compressed as the various matters there given must necessarily be, so does it seem judicious that the opportunity which is now afforded by our own government in attaching such trade circulars or expository papers as this is, to the British portion of the Catalogue, should not be idly valued, and hence the reproduction here of the matter so written, it being thus worded:—

1.—Modes by which different Articles in the trade may be both improved and cheapened. [To be "Protected" in behalf of the Inventor and Exhibitor.—J. Dacres Devlin.]

2.—Specimens of the highest manipulative perfection in the Art, as shewn in the *closing* (Joigneur de Botte), and the *bottoming*, or attaching of the sole parts. Only a few, however, of these are of recent production, the rest having been produced in the manner described in the next head, or selected because of some special excellence, peculiarity of workmanship, style, fashion, or form.

3.—Various (so called) 'Prize' Boots and Shoes, as fabricated in London, or elsewhere in the United Kingdom, by the Operatives themselves, and exhibited in their own assemblies at such times as Christmas, Easter, Whitsuntide, and the October, or St. Crispin holidays.

In these cases the producer sells the article for three, five, seven, or ten pounds sterling, as his abilities or reputation can command the better prize; the purchaser being the keeper of some public house, and who, as a present means of reimbursement, charges sixpence or a shilling (formerly it was always 1s.) to see such piece of superior workmanship, the payer getting the value of one-half the sum so charged in any kind of drink he may choose. For the first three days of the Exhibition these payments continue, and afterwards the article may be examined without any compulsory fee; though, of course, it is always expected that every subsequent visitor will expend something in the place—one which is either generally resorted to by the shoemaker, or is so sought to be made a rendezvous for the trade.

On other occasions, two 'prize men' contend against each other, for, perhaps, a direct wager of £5 or £10, and the value of the articles as given by the purchasing-publican; such events customarily causing much excitement, the friends of the contending parties arraying themselves on their respective sides—the English with their English champion, the Irish with their Irish, and the Scotch or Welsh with those of their respective nationalities; while the particulars of these contests are often made a subject of the most earnest disputation or workshop gossip long afterwards, until, eventually, the whole story may become but a mere myth or tradition.

The Collector and Exhibitor—himself at one time a 'prize man'—in consequence of a familiarity of about forty years with these matters, as apprentice and journeyman, has thus been enabled to furnish this account from personal knowledge; and also to make known the Names of those whose *chefs-d'œuvre* are displayed in the present Collection; which will be found on the label attached to each article; as also to state the probable time of their production, that thereby any such advancement or decadence in the Art as have taken place may be easily ascertained.

4.—The Exhibitor also produces, as appertaining to the historic aspect of the Boot and Shoe Trade here glanced at, a document of much industrial importance, in the shape of the original Charter of the Ancient Cordwainers' Company of Exeter. It is of the time of Queen Elizabeth, has a full-length likeness drawn of her Majesty, in colours, is very explicit in enumerating the regulations of the Guild, and stating the prices to be paid for making the different kinds of boots and shoes then in use.

This, therefore, being a transcript of the statement which J. D. D. felt it requisite to have forwarded to Paris in explanation of his own part and purposes in regard to the present Exhibition, it next behoves him to further make known, that, as he has occasionally assumed to be somewhat of a scribbler as well as shoemaker, so he also intends to employ his pen on these boot and shoe matters, as in other respects he may be called to his awl; and to which end he has drawn up the following prospectus:—

[SEE OVER

TO BE PUBLISHED BY SUBSCRIPTION.

CRITICA CRISPIANA;

OR,

AN INSTRUCTIONAL EXAMINATION

OF THE

BOOTS AND SHOES, BRITISH AND FOREIGN,

OF THE

Great London Exhibition of 1851, the Dublin Exhibition, 1853, and the Paris Universal Exhibition, 1855.

Interspersed with many Particulars of a Congenial Character, as relative to "Prize Work," "Prize Men," Eminent Employers, &c.; the whole being of much value to those who are practically engaged in the Trade; as also to all other Parties who may desire the best information on a subject of such importance to their everyday requirements as the Perfect Boot and Shoe.

By J. DACRES DEVLIN,

Author of "The Boot and Shoe Trade of France" (produced so long ago as 1838; "The Shoemaker," in Mr. Charles Knight's Series of *Trade Guides;* an Article of the same name in the *Penny Cyclopædia;* "Helps to Hereford History" (containing an Account of the Ancient Cordwainers Company of the City); as also of several Works on other subjects; and Editor, during the two years of its continuance, of *The Cordwainer's Companion.*

J. D. D. being offered, as the result of his known trade partialities and fitness for the office, the charge of the Boot and Shoe Department of the Associated Exhibitors of London—during the time the present Exhibition remains open—a position allowing the best facilities for making his observations on the various Articles so exposed; and having accepted the same, intends, on his return from Paris, after such duty has expired, to produce the Work whose title is above given; possessing, as he does, all the necessary material for furnishing the earlier portion of the volume in relation to the two preceding exhibitions of London and Dublin—some eighty pages of which having already appeared, but to be reproduced in a better form and style of printing. The work, in its complete state, will make a goodly-sized book, at a cost of five or six shillings, as the matter may be comprised in *five* or *six* parts, but not more than six. While the names of subscribers will be received by the Author during his daily attendance in the Building; or such support may be forwarded by letter, addressed to him in the care of "Monsieur Richard, Rue St. Honoré, 296, à Paris," and subsequently, "24, Liverpool-street, City, London," and where all *home* communications, not requiring an immediate answer, are likewise to be sent.

It may, too, be stated in this place, that should the support by either the French or German class of readers, or both, be sufficient to warrant the expense, then a Translation will appear in these languages, but not otherwise. It will, therefore, be necessary for such subscribers as do not understand English, or would prefer the work to be in their own language, to notify such fact or desire at the time they give their respective names and addresses. Likewise, it will be expected that in all cases the foreign subscriber is to *prepay* one half the amount of every such book, or number of books, for which he subscribes, the same to be held over to his credit until the work appears, or if not so produced, returned—Monsieur Richard to be the receiver in Paris of all such sums, and the repayer, under the condition which has just been mentioned.

OPINIONS OF THE PRESS ON SOME OF THE AUTHOR'S WORKS.

As some guarantee that a certain share of literary merit may be found in the volume now proposed, as well as of Trade Information, the following extracts from notices of the Press on different other works by the writer, are offered to the consideration of the reader, so that he may not be wholly in fear, on wishing to become a subscriber, of buying, as the saying is, "a pig in a poke:"—

"This (THE SHOEMAKER) is a useful work; valuable as a guide to a widely-spread trade, with numerous followers, and not without interest to the public."—*Athenæum.*

"It is remarkably clever and intelligent, and so full of information of a general kind, besides its abundant instruction for the trade itself, that we can confidently recommend it to everybody's reading. It is a guide to the trade in the best sense of the word. It is written with great simplicity, great earnestness, and a thorough knowledge of the subject in all respects."—*Examiner.*

HELPS TO HEREFORD HISTORY.—"A series of clever and various papers."—*Spectator.*

"Full not only of gossip, but of much useful information."—*The Tablet.*

"The reverend critic, (Dr. Parr), would have liked this little book."—*Douglas Jerrold's Newspaper.*

"Our old acquaintance, J. D. Devlin, a remarkable member of the most remarkable craft of shoemakers, which makes one think 'there is nothing like leather' for making poets, philosophers, and other clever fellows, has got down to the ancient city of Hereford, and has already, in this little work, thrown much information on the antiquities of the place."—*Howitt's Journal.*

"To all persons who delight in the legendary, this little volume will be right welcome, containing, as it does, so much which belongs to the curious, marvellous, and traditionary."—*Nottingham Review.*

"He is a poet, and not a mean one; an antiquarian, with knowledge quite equal to his zeal; and a prose writer, possessing the power of expressing himself with clearness and facility."—*Eastern Counties Herald.*

"His style is singularly vigorous, like that of most authors who owe their literary education to their own persevering industry."—*Western Times.*

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HENRY DOLBY,

Heraldic & Official Designer & Die Engraver,

INVENTOR & PATENTEE OF OFFICIAL STAMPING PRESSES,

HERALDIC & WEDDING STATIONER, &c., &c.,

56, REGENT STREET, QUADRANT, LONDON.

Exhibitor at the Paris Universal Exhibition—English Department, Rotation Number, 3103.

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OFFICIAL DIES & STAMPING PRESSES,

Designed to give authenticity to the documents of Ambassadors, Consuls, Notaries, Merchants, &c., and constructed to combine the greatest mechanical power in a compact and elegant form, while it is impossible for them to get out of order, or to be affected by change of climate.

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Kept in stock, stamped with the Crests of more than 10,000 *families.*

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Specimens of the superiority of DOLBY's Die Engraving, and Stamping in Gold, Colour and Silver relief, may be seen at the Paris Exhibition—English Department, Rotation Number, 3103.

H. DOLBY's collection of Dies and Stamped Note Paper, comprises the devices of the Regiments of the Line, the Militia, and the Ships of Her Majesty's Royal Navy. Note Paper and Envelopes stamped with the device of either of them, and supplied without charge for engraving.

Stone Engraving as applied to Signet Rings, Gems, &c., by Artists of the first talent.

DOLBY'S

WEDDING CARDS AND ENAMEL ENVELOPES

"Billets de faire part," "At Homes," and "Breakfast Invitations,"

Printed and Stamped in Silver relief, as now used in the highest circles of fashion.

DOLBY'S

VISITING AND BUSINESS CARDS,

Combining the best engraving and printing, with first-rate material of cards, warranted not to discolour in any climate.

DOLBY'S

ENGLISH WRITING PAPERS AND ENVELOPES,

Of the Finest Qualities Manufactured,

Comprises "The Royal Treasury;" "The Oriental Amber," made expressly for the Queen; "The Reticulated;" "The Torsade;" "The Damask Wave;" "The Brief lined Bank Post," in every tint; "The Indian Inland and Overland Post;" and every description of Cream Laid Paper, Plain, Ornamented, and Black Bordered.

53, REGENT STREET, QUADRANT, LONDON.

LIST OF PRICES OF COTTON MACHINERY,

MADE BY JOHN MASON,

GLOBE WORKS, ROCHDALE,

Near MANCHESTER.

	£	s.	d.
Single Scutcher			
Double Scutcher			
Single Scutcher and Lap Machine for 40-inch Carding Engine: extreme length, if fed by 3 Laps, 14ft. 10in., and 6ft. 5in. wide			
Do. do. 48-inch Carding Engine: extreme length, if fed by 3 Laps, 14ft. 10in., and 7ft. 1in. wide			
Double Scutcher and Lap Machine for 40-inch Carding Engine: extreme length, if fed by 3 Laps, 19ft. 10in., and 6ft. 5in. wide			
Do. do. 48-inch Carding Engine: extreme length, if fed by 3 Laps, 19ft. 10in., and 7ft. 1in. wide			
Treble Scutcher and Lap Machine for 40-inch Carding Engine: extreme length, if fed by 3 Laps, 24ft. 10in., and 6ft. 5in. wide			
Do. do. 48-inch Carding Engine: extreme length, if fed by 3 Laps, 24ft. 10in., and 7ft. 1in. wide			
Fans			
Patent Card Feeder, per inch on width of Beater			
These Machines are made either for ascending or descending draught, with 2 squirrel cages to each beater.			
Lord's Patent Self-acting Feed Regulator, (including patent-right)			
Single Breaker Engines, ins. on the Wire, Cylinder ins dia., Doffer ins. dia., Rollers ins. dia., Clearers ins. dia., 1 Taker-in ins. dia., Lap Drum ins. dia., Feed Rollers ins dia.			
Single Finisher Engines, ins. on the Wire, Cylinder ins. dia., Doffer ins. dia., Rollers ins. dia., Clearers ins dia, Feed Rollers ins dia.			
Do. if with Flats			
Single Carding Engines, 40ins. on the Wire, Cylinder 42ins., Doffer 21ins., 5 Rollers 6 ins., 5 Clearers 3½ins., Taker-in 8ins., 2 Feed Rollers 1¼in. ..... Or sometimes 5 Flats instead of 1 Roller and Clearer.			
Do. 40ins. on the Wire, Cylinders 45ins., Doffers 22ins., 7 Rollers 6ins., 5 Clearers 3½ins, Taker-in 8ins., 2 Feed Rollers 1¼in., or 6 Rollers and Clearers, &c. ...			
Do. 48ins. on the Wire, Cylinders 42ins., Doffers 21ins., 5 Rollers 6ins., 5 Clearers 3½ins., Taker-in 8ins., 2 Feed Rollers, 1¼in.			
Do. 48ins. on the Wire, Cylinders 45ins., Doffers 22ins., 7 Rollers 6ins., 5 Clearers 3½ins., Taker-in 8ins., 2 Feed Rollers, 1¼in., or 6 Rollers and Clearers, &c....			
Plungers and Can-Revolvers, including patent-right, per Engine.....			
Coilers do. do. with Geering			
If Iron Cylinders and Doffers instead of Wood, extra "			
If Patent Card Feeders, (including patent-right.) per inch on Wire			
Double Carding Engines, 40ins. on the Wire, 2 Cylinders 42ins, 2 Doffers 21ins., 10 Rollers 6ins., 10 Clearers 3ins., Taker-in 8ins., 2 Feed Rollers 1¼in.			
Do. do. 48ins. on the Wire, 2 Cylinders 42ins., 2 Doffers 21ins., 10 Rollers, 10 Clearers, Taker-in 8ins., 2 Feed Rollers 1¼in.			
Plungers and Can-Revolvers, (including patent-right,) per Engine			
Coilers do. do. with Geering.....			
If Iron Cylinders and Doffers instead of Wood, extra			
If Patent Card Feeders, (including patent-right,) per inch on Wire			
Grinding Machines, for 40ins. Carding Engines, for Grinding Rollers, Clearers, Takers-in, and Flats, with 21ins. Emery Cylinder.....			
Do. 48ins.			
Do. with 8in. Emery Rollers, for Grinding Rollers, Clearers, and Takers-in only...			
Do. for in. Carding Engines, with 14ins Emery Rollers, for Grinding 4 Rollers, or 4 Clearers at once			
Iron Turning-up Rest, Slide, and Tools.....			

	£	s.
Drawing Frames, 6 Single Heads, with Stopping Motions, Plungers, and Can-Revolvers, or Coilers and Revolvers, rows Rollers, including patent-right		
Do. 3 Heads, 2 Deliveries each, with Stopping Motions, Plungers and Can-Revolvers, or Coilers and Revolvers, rows Rollers, including patent-right ...		
Do. 3 Heads, 3 Deliveries each, with Stopping Motions, Plungers and Can-Revolvers, or Coilers and Revolvers, rows Rollers, including patent-right ...		
Do. 3 Heads, 4 Deliveries each, with Stopping Motions, Plungers and Can-Revolvers, or Coilers and Revolvers, rows Rollers, including patent-right ...		
Do. Heads, Deliveries each, with Stopping Motions, Plungers and Can-Revolvers, or Coilers and Revolvers, rows Rollers, including patent-right ...		
Roydes' Stopping Motion for Preventing Roller Lapping		
Slubbing Frames, Spindles each, ins. lift, soft bobbin, double rows Spindles, 3 rows Rollers, per Spindle		
Seed's Centrifugal Single Press, with curved slot, long socket, and break in fly		
Extra for 4 rows Rollers, per Spindle.....		
Mason & Co.'s patent Collar, ,, (including patent-right)		6
Do. do. separating Plates, disengaging Motion, and Break, per Spindle		2
Intermediate Frames, Spindles each, ins. lift, soft bobbin, double rows Spindles, 3 rows Rollers, per Spindle		
Seed's Centrifugal Single Press, with curved slot, long socket, and break in fly		
Extra for 4 rows Rollers, per Spindle.....		
Mason & Co.'s patent Collar, ,, (including patent-right).....		6
Do. do. separating Plates, disengaging Motion, and Break, per Spindle		2
Roving Frames, Spindles each, ins. lift, soft bobbin, double rows Spindles, 3 rows Rollers, per Spindle		
Seed's Centrifugal Single Press, with curved slot, long socket, and break in fly		
Extra for 4 rows Rollers, per Spindle.....		
Mason & Co.'s patent Collar, ,, (including patent-right).....		4
Do. do. separating Plates, disengaging Motion, and Break, per Spindle		1
Fine Roving Frames, Spindles each, ins. lift, soft bobbin, double rows Spindles, 3 rows Rollers, per Spindle		
Extra for 4 rows Rollers, per Spindle.....		
Mason & Co.'s patent Collar, ,, (including patent-right).....		3
Do. do. separating Plates, disengaging Motion, and Break, per Spindle		1
Throstles with Band or List Wharves, 2 or $2\frac{1}{4}$ ins. lift, $2\frac{3}{4}$ distance		
No. of Spindles, 144, 160, 176, 192, 208, 224, 240, 256, 272, 288, 320, 368, 400.		
Price per Spindle		
Throstles with Band or List Wharves, 2 or $2\frac{1}{4}$ ins. lift, $2\frac{1}{2}$ distance		
No. of Spindles, 144, 160, 176, 192, 208, 224, 240, 256, 272, 288, 320, 368, 400.		
Price per Spindle		
Doublers ,,		
Self-acting Mules, Robertson's patent, $1\frac{3}{8}$ in. guage		
No. of Spindles, 350, 400, 450, 500, 550, 600, 700, 800, 900, 1000, 1100.		
Price per Spindle,		
$1\frac{1}{4}$ in. guage, per Spindle less. $1\frac{7}{16}$ in. guage, per Spindle less.		
$1\frac{1}{8}$ in. guage, " "		
Driving Apparatus, per Mule		
Winding Machines, Spindles each, (double rows) per Spindle		
Reels, Hanks, or Spindles each		
Stivens's Patent Chucks		

These Prices are for delivery at the Works.

Cases, packing, and delivery in Hull or Liverpool, on the Mules, ...	per cent.
Carding Engines, Winding Machines, and Reels	"
Scutchers, Drawing, Slubbing, & Roving Frames, Throstles, & Doublers,	"

TERMS

BY ROYAL LETTERS PATENT.

EAST INDIA BLACK BUFFALO HORN KNOBS,

FOR MORTICE LOCKS AND LOCKS OF ALL DESCRIPTIONS,

DRAWER KNOBS AND ESCUTCHEONS,

DOOR FINGER PLATES, BELL PULLS, &c.

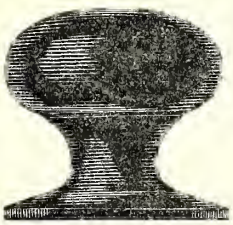
MANUFACTURED BY

GEORGE W. FURNISS,

SHEFFIELD.

PATENT BUFFALO HORN MORTICE LOCK FURNITURE.

287.

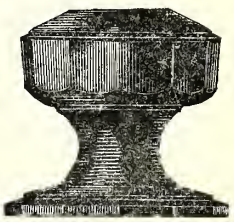


For 3 Bolts—2in. 4/8 plain, 5/9 inlaid.
„ 2¼in. 6/0 „ 7/0 „
„ 2½in. 7/0 „ 8/3 „
For 2 Bolts—2in. 4/3 „ 5/2 „
„ 2¼in. 5/6 „ 6/4 „
„ 2½in 6/6 „ 7/6 „

277.

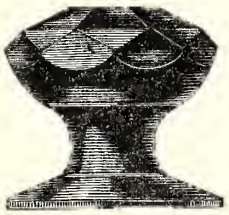
For 3 Bolts—2in. 4/8 plain, 5/9 inlaid.
„ 2¼in. 6/0 „ 7/0 „
„ 2½in. 7/0 „ 8/3 „
For 2 Bolts—2in. 4/3 „ 5/2 „
„ 2¼in. 5/6 „ 6/4 „
„ 2½in. 6/6 „ 7/6 „

812.



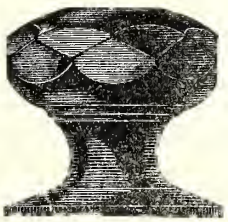
For 3 Bolts—2in. 6/0 plain, 7/0 inlaid.
„ 2¼in. 7/0 „ 8/6 „
„ 2½in. 8/6 „ 9/6 „
For 2 Bolts—2in. 5/6 „ 6/4 „
„ 2¼in. 6/4 „ 7/3 „
„ 2½in. 7/9 „ 8/9 „

540.



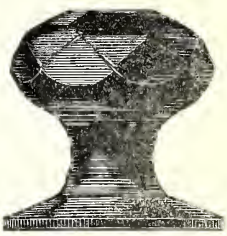
For 3 Bolts—2in. 6/0 plain, 7/0 inlaid.
„ 2¼in. 7/0 „ 8/6 „
„ 2½in. 8/6 „ 9/6 „
For 2 Bolts—2in. 5/6 „ 6/4 „
„ 2¼in. 6/4 „ 7/3 „
„ 2½in. 7/9 „ 8/9 „

1048.



For 3 Bolts—2in. 6/0 plain, 7/0 inlaid.
„ 2¼in. 7/0 „ 8/6 „
„ 2½in. 8/6 „ 9/6 „
For 2 Bolts—2in. 5/6 „ 6/4 „
„ 2¼in. 6/4 „ 7/3 „
„ 2½in. 7/9 „ 8/9 „

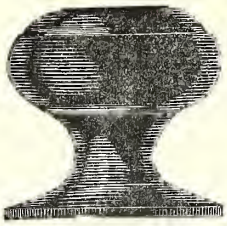
1049.



For 3 Bolts—2in. 6/0 plain, 7/0 inlaid.
„ 2¼in. 7/0 „ 8/6 „
„ 2½in 8/6 „ 9/6 „
For 2 Bolts—2in. 5/6 „ 6/4 „
„ 2¼in. 6/4 „ 7/3 „
„ 2½in. 7/9 „ 8/9 „

MORTICE KNOBS, &c. continued.

1052.



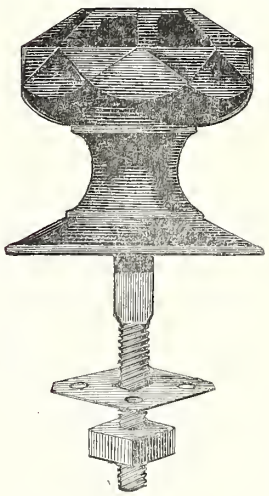
FOR 3 BOLTS	2in.	5/0 plain,	6/0 inlaid.
„	2¼in.	6/3 „	7/3 „
„	2½in.	7/3 „	8/6 „
FOR 2 BOLTS	2in.	4/6 „	5/6 „
„	2¼in.	6/0 „	6/8 „
„	2½in.	7/0 „	8/0 „

1036.

FOR 3 BOLTS ..... 2¼ inch only, 7/6

FOR 2 BOLTS ..... 2¼ inch only, 6/9

HALL DOOR CENTRE KNOB.



2¼ inch, 2/9 each | 2½ inch, 3/6 each.

KEY ESCUTCHEON, 7s. per Dozen.

	2	2⅛	2¼	2½ inch.
Plain Mortice Knobs and Roses only, (287 & 277) per dozen	18/0	18/6	26/0	31/6
Inlaid ditto	24/0	24/6	31/6	38/0

Roses only, 4/ per dozen.

Proportionate Prices for all the other Numbers according to the Design.

PATENT BUFFALO HORN SHUTTER KNOBS.

287.

	¾	1	1¼	1⅜	1½ inch.	
Plain, with Iron Screws, for wood, ...	2/0	2/6	4/0	4/6	5/0	per doz.
Inlaid ditto ditto ..	3/6	4/0	5/6	6/0	6/6	„

PATENT BUFFALO HORN SHUTTER LATCH OR BOLT KNOBS.

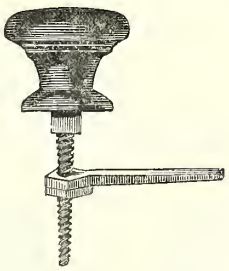
287

	1¼	1⅜	1½ inch.	
Plain	5/6	6/0	6/6	per doz.
Inlaid	7/0	7/6	8/0	„

PATENT
BUFFALO HORN DRAWER KNOBS.
287.

	¾	1	1¼	1⅜	1½	1¾	2 inch.
Plain, with Brass Nuts and Screws.....	2/9	3/3	4/6	5/0	5/6	7/0	7/9 doz.
Inlaid ditto ditto	4/3	5/3	6/6	7/3	8/0	9/6	10/3 „

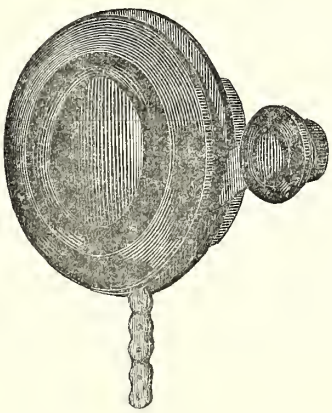
PATENT
BUFFALO HORN CUPBOARD TURNS.
287.



	1	1¼	1⅜	1½	1¾ inch.
Plain	4/	5/6	6/0	6/6	8/0 per doz.
Inlaid	5/	7/0	7/6	8/0	9/6 „

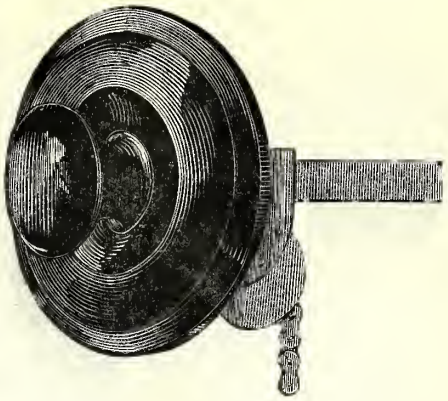
The last 4 Knobs can be made in any of the Mortice Patterns, at proportionate prices.

PATENT BUFFALO HORN BELL PULLS.
595.



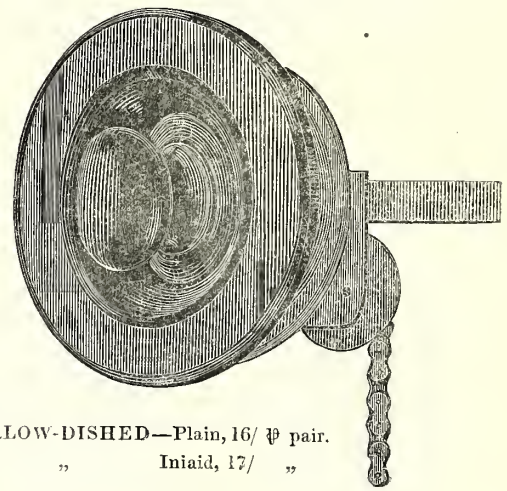
LEVER—Plain, 12/6; Inlaid, 14/ per pair.

BELL PULLS continued.
500.



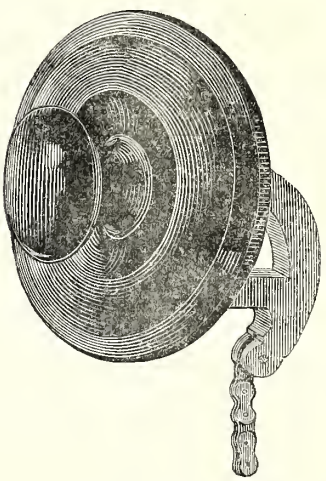
	3½	3¾
DRAW-OUT—Plain	11/0	14/0 per pair.
„ Inlaid	12/0	15/0 „

502.



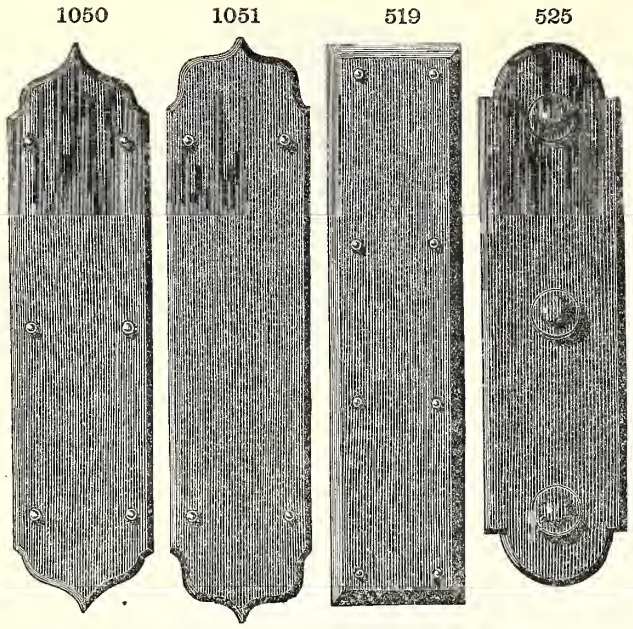
HOLLOW-DISHED—Plain, 16/ ℔ pair.
„ Iniaid, 17/ „

501.



QUADRANT—3¾inch, 14/ per pair.

PATENT BUFFALO HORN FINGER PLATES.



TAPERED OR BROAD POINTED ENDS.
Nos. 1050 and 1051.

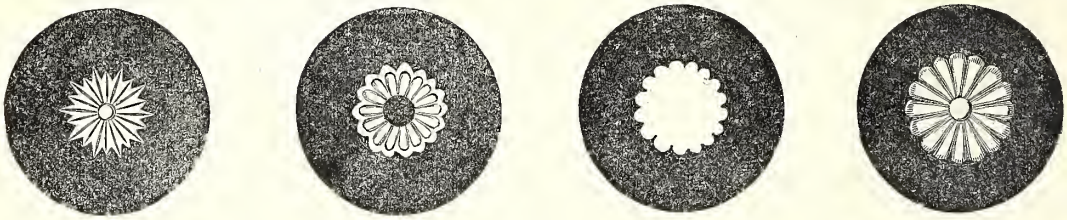
Plain,	12 in. by 3 in., 8/;	Inlaid,	11/	per pair.
„	10 in. by 3 in., 7/;	„	9/	„
„	8 in. by 3 in.. 6/;	„	8/	„

ROUND OR SQUARE ENDS.
Nos. 525 and 519.

Plain,	12 in. by 3 in., 7/6;	Inlaid,	10/6	per pair
„	10 in. by 3 in., 6/6;	„	8/6	„
„	8 in. by 3 in., 5/6;	„	7/0	„

INLAYS OF PEARL.

STAR. RING. SHIELD. FINGER-PLATE STUD



The Prices of Inlays in Pearl are about the same as in the preceding List.

INLAYS OF GOLD AND SILVER;

ALSO

Crests and Coats of Arms engraved on Shields to order,

ALSO EMBOSSED IN RAISED FIGURES, AT PROPORTIONATE PRICES.

[Parkin & Bacon, Printers, Sheffield.]

By special Appointment,

THOMAS WILKINSON & SON,

MANUFACTURERS OF SCISSORS TO HER MAJESTY

And Cutlers to His Royal Highness Prince Albert,

17, NEW CHURCH STREET, SHEFFIELD.

PRIZE MEDAL,

EXHIBITION, 1851,

AWARDED TO

THOMAS WILKINSON AND SON.

Class 21.

EXTRACTS.

WINDSOR CASTLE, December 14, 1848.

SIR HENRY WHEATLEY begs to acknowledge the receipt of a case, containing a Pair of Scissors for HER MAJESTY, which he has not failed to submit to THE QUEEN, and Sir Henry is desired to express Her Majesty's ADMIRATION OF THEIR WORKMANSHIP AND EXECUTION, which reflects much credit on Messrs. WILKINSON.

WINDSOR CASTLE, October 16, 1840

SIR,

I lose no time in acquainting you that I have presented the Case of Cutlery which you left with me to H. R. H. PRINCE ALBERT, and that His Royal Highness has been pleased to accept it. It will give His Royal Highness great pleasure to appoint you his Cutlers at Sheffield.

To Messrs. WILKINSON & SON,
SHEFFIELD.

I am your most obedient Servant,
(Signed) G. E. ANSON.

FROM "THE ART JOURNAL," November 1850.—Messrs. THOMAS WILKINSON & SON, (17, New Church Street,) are among the most ingenious of the scissor-makers of the town, and have adopted many new and useful improvements, as well in the manufacture and form as in the applicability of their various implements. Our cuts will exhibit the taste and elegance of their finer and more delicate work, destined for the use of the fair sex; but an equal amount of ingenuity of a different kind has been exerted upon articles of a coarser kind. The tailors' scissors which they manufacture are remarkable for the peculiar merit of their general construction, and for the excellent manner in which they are adapted to their necessary uses. The best mode of giving strength and protection to each finger of the hand has been well considered, and the scissor designed so that it may be a most useful auxiliary to the workman, obeying his every want, and befitting his every wish. It is this strict attention to the *minutiæ* of each article among the many manufactured in Sheffield which gives the town its position, and assures the confidence of the world in its varied fabrications in steel; a character which commenced amongst us in the middle ages, and has been triumphantly maintained until the present day.—(See also "ART JOURNAL CATALOGUE, EXHIBITION, 1851.")

FROM "THE PATENT JOURNAL," June 21, 1851.—In Scissors, Messrs. WILKINSONS, of New Church Street, Sheffield, occupy a leading position, both as regards correct taste, novelty of design, and excellence of workmanship. The duplicate specimen of scissors, Manufactured by them for the Queen, with the ornamental part filed out of solid steel, have attracted much notice, and are interesting specimens of what labour and ingenuity can effect.—Messrs. Wilkinson and Sons have also carried the manufacture of shears to a high degree of perfection, specimens of which are exhibited.

THOMAS WILKINSON & SON'S

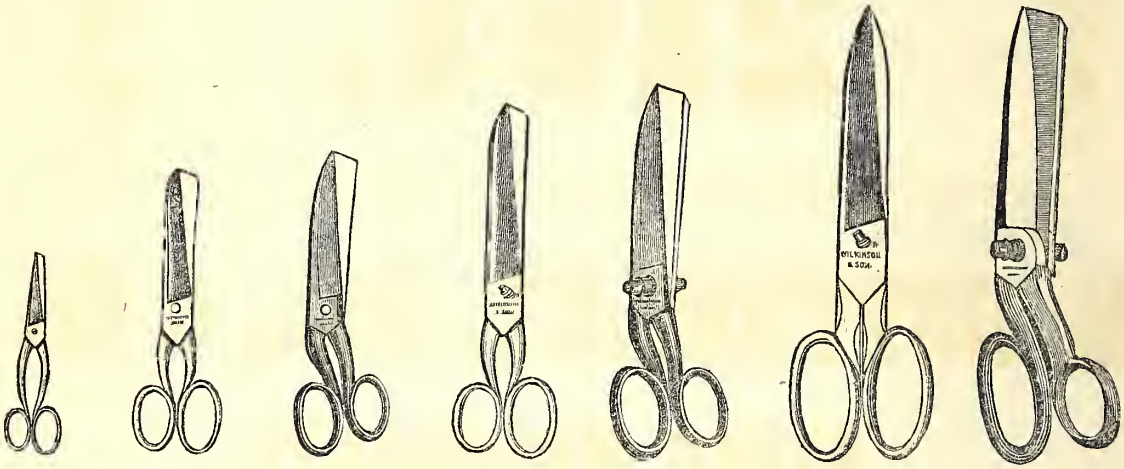
CELEBRATED TAILORS' SHEARS,

WITH BRASS AND GERMAN SILVER HANDLES,

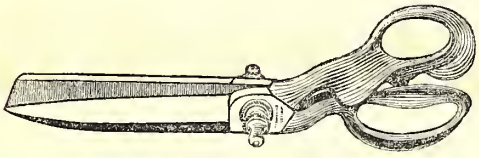
TAILORS' SCISSORS, AND SMALL CUT OR BUTTON-HOLE SCISSORS,

MANUFACTURED FROM THE BEST STEEL,

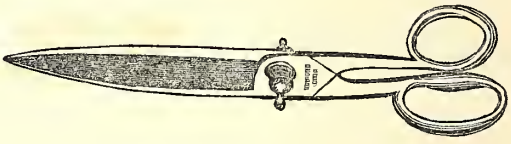
AND TEMPERED WITH THE GREATEST CARE BY ONE OF THE FIRM.



3132 3126 3126½ 3127 3127½ 3129 3129½



3130½



3131

T. W. & Son have received many flattering Testimonials from first-rate Cutters, and have had practical experience in manufacturing the above articles for upwards of Thirty Years, can with confidence recommend them to the trade.

Observe the Stamp, **T. Wilkinson & Son, Sheffield.**

And the CORPORATE MARKS, T.W. granted by Act of Parliament.

PARIS EXHIBITION.

BRITISH SECTION.

GROUP VI. **ROTATION NO.** CLASS XX.

2164.

M. BOTTOMLEY, Jun., & Co.

STUFF MERCHANTS,

BRADFORD,

YORKSHIRE.

Besides exhibiting Makes of

Cobourgs—Paramattas—Orleans—Circassians—Lustres—Alpaca Lustres—Alpaca Twills and Serges—Sangster's Patent Alpaca Umbrella Cloth—Union and Worsted Damasks—Moreens—Skirtings—Aprons—Worsted and Mohair Figures—Orlean and Mohair Linings—Plain and Fancy Alpaca Coatings and Grograms—Russell Cords—Gambroons and Doeskins—College and Summer Cloths—Russells and Lastings—Merinoes—Fancy Dress Goods, &c., &c.,

Show full Ranges of Patterns, of which Duplicates, with Price List, will be

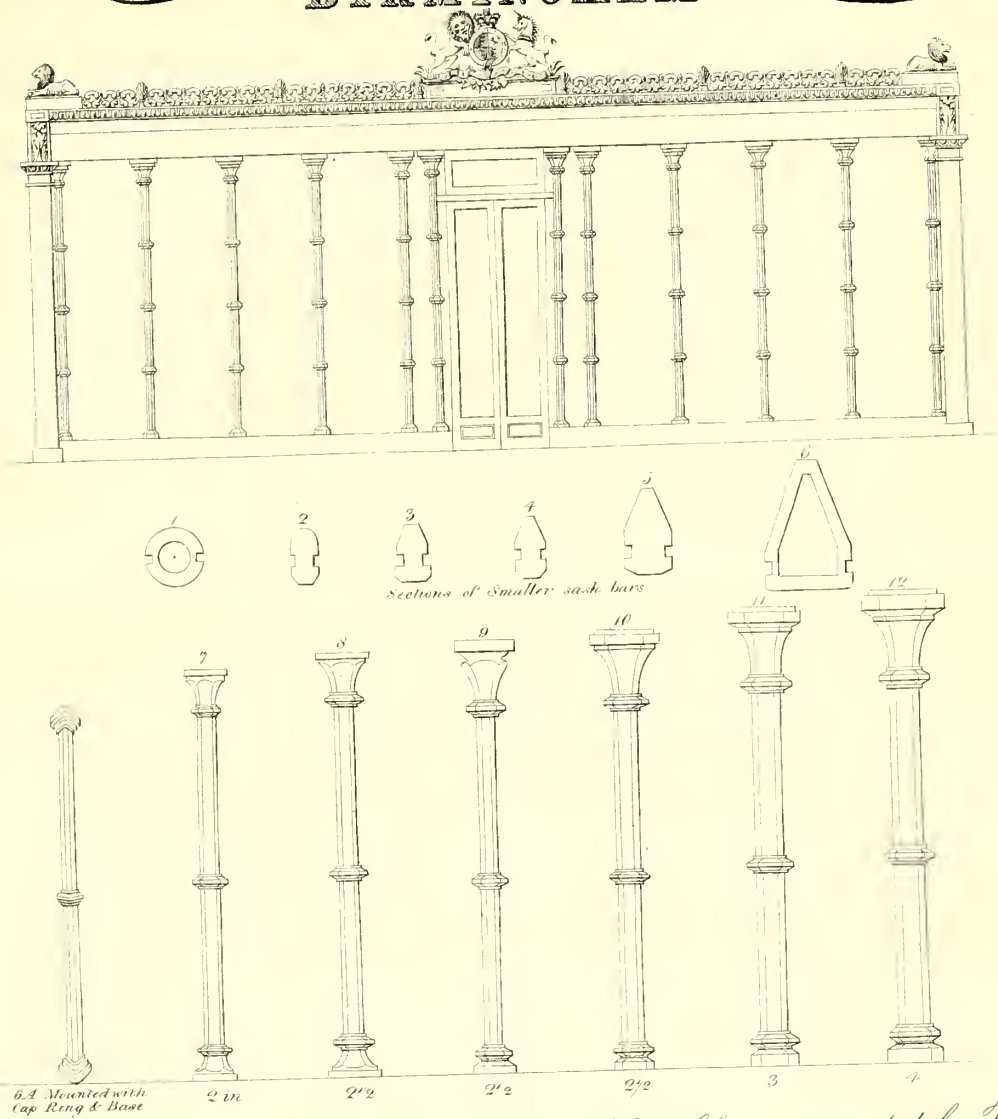
PATENT CRYSTAL WINDOW,

MANUFACTURED BY

LLOYD & SUMMERFIELD,

Park Glass Works,

BIRMINGHAM



This Window consisting exclusively of Plate Glass, supported by Flint Glass Pillars or Sash Bars, presents every thing that could be desired for Shop Fronts, perfect transmission of light, elegant appearance, and imperishability from rust and decay; and moreover requires little or no trouble and expense in cleaning.

Examples may be seen at the London Mantle & Shawl Co. St Pauls Church Yard London, at Birmingham Leamington, Worcester, Abergavenny Shrewsbury, the Crystal Palace Sydenham, Liverpool, Glasgow, Bristol, Leeds, Coventry Oxford, Dover, &c. &c.

These Flint Glass Sash bars are also applicable for the purpose of transmission of light in Skylights, Sash Windows, Glass Roofing, Show Cases for Goods, Glass Doors, Looking Glass Frames, and various other purposes.

THOMAS TURTON & SONS,

Manufacturers of

STEEL, FILES, SAWS, EDGE TOOLS,

LOCOMOTIVE & RAILWAY CARRIAGE SPRINGS,

SHEAF WORKS,

SPRING WORKS, & SLACK STEEL WORKS,

SHEFFIELD,

And 12, Saint Benet's Place, Gracechurch Street,

LONDON.

Continental Agencies.

M. M. PAGAT & SALICHON, Rue du Grand Chantier, No. 10, PARIS.

HONORE DE MOOR,	LOKEREN,	BELGIUM.
J. P. SERRES,	ELBERFELD,	RHINE PRUSSIA.
EDWARD THOMAS,	BRESLAW,	PRUSSIA.
BERNHD. NOEZOLD,	CHEMNITZ,	SAXONY.
F. E. SCHOCH,	VIENNA,	AUSTRIAN STATES.
BORELLI & BOSIO,	TURIN,	ITALY.
APH. BUISSON,	MADRID,	SPAIN.

American Offices.

THOMAS TURTON AND SONS,

100, BEEKMAN STREET,	NEW YORK.
LIBERTY SQUARE,	BOSTON.
2, RANSTED PLACE,	PHILADELPHIA.
COMMERCIAL BUILDINGS,	MONTREAL,
KING STREET,	TORONTO.

PATRONISED BY

H.R.H. PRINCE ALBERT.

Pickwick Iron Works,

BATH.

JAMES WILLIAMS,

MANUFACTURER OF EVERY DESCRIPTION OF

STEAM ENGINES,

MACHINERY AND MACHINE TOOLS,

Lathes, Planes, Slotting, Punching, Shearing,

GROOVING, WHEEL-CUTTING, DRILLING,

AND

GENERAL SHAPING MACHINES,

EITHER SELF-ACTING, COMPLETE IN THEMSELVES, OR AS APPENDAGES TO THE LATHE, &c.

J. W. recommends his IMPROVED STOCKS AND DIES, for Screw Cutting, being more easily repaired when worn than any others. The dies are of the most simple figure, thereby obviating the necessity of troublesome fitting or extreme accuracy when requiring repairs; and are so contrived that one die embraces nearly half the pin, which renders the cutting of the thread by the other die more true, making it nearly as accurate as that cut by the slide lathe. The taps are all grooved by machinery, and are of accurate standard pitches and sizes, as proposed and so successfully carried out by Mr. J. WHITWORTH.

J. W.'s HIGH-PRESSURE PENDULOUS STEAM ENGINE is the

simplest ever contrived, having but three working joints. Numerous references can be made as to the successful working of these Engines for many years. As they contain so few joints, the attention, or lubrication required is but small. They are also more economical in repairs, and less self-destructive than any other form of Engine. They can be worked to any amount of expansion, made reversible, and are applicable to any kind of work in any place. They are peculiarly applicable as high pressure, quick working, direct acting, MARINE ENGINES.

J. W. is the inventor of the "EXPERIMENTAL STRAIGHT EDGES," being a system of Metalic Bars, for the purpose of *occularly demonstrating* the deflective property of all kinds of iron beams, girders, &c. A specimen of these was exhibited in the Crystal Palace of 1851, when J. W. received the commands of H. R. H. PRINCE ALBERT to execute a duplicate set, with which he had the honor of showing the interesting experiments at a private interview with H. R. H. at Buckingham Palace. A corresponding set is now exhibiting at the International Exhibition at Paris.

All sizes of SURFACE PLATES AND STRAIGHT EDGES made at low prices, got up by the scraping tool, without grinding. A specimen of J. W.'s Surface Plates was graciously accepted by H. R. H. PRINCE ALBERT, for the instruction and amusement of H. R. H. the PRINCE OF WALES.

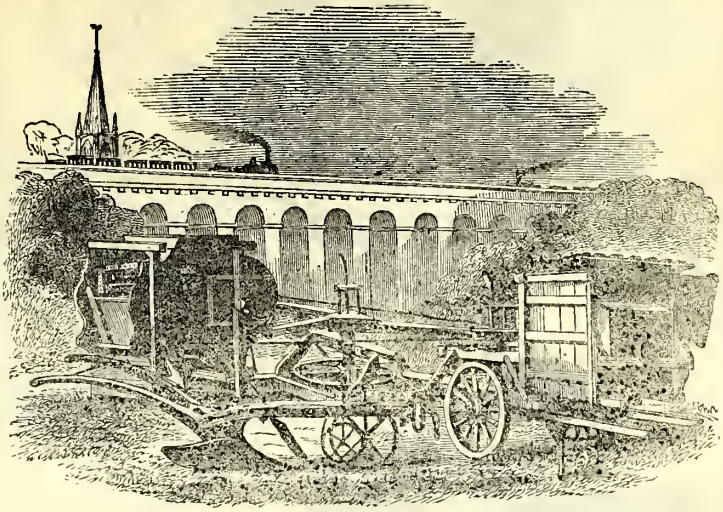
Prices and Specifications forwarded upon application.

PICKWICK IRON WORKS, BATH;
May, 1855.

PARIS UNIVERSAL EXHIBITION. *Rotation Number 2839.*

NIXON'S OIL STAIN.

A CHEAP AND DURABLE



SUBSTITUTE FOR PAINT.

For Churches, Public Buildings, Railway Carriages & Stations, Agricultural Implements, Ships' Cabins &c.

NIXON'S OIL STAIN, or STAINING VARNISH

Will be found upon trial, to be the *best* and *cheapest* Stain in use, for common work, (as Roofs &c.) no Varnish or Boiled Oil being required after Staining; and in the case of the interior of Houses, one coat of Varnish will be sufficient, except in Apartments where a superior effect is desired.

New Carved Oak may be made to match Antique Carving, and Old Carving renovated at but trifling cost of time or money.

TO CONTRACTORS

It is invaluable, when it is considered that *in all cases* one coat of Varnish may be dispensed with, thereby saving labour and material. It is as easily applied as Varnish, and will stand much better than Paint. *See the following*

TESTIMONIALS.

"*Sir,*

Clipston, near Market Harborough, Feb. 7th, 1853.

"*Having used your Oak Stain for Staining the pulpit, pews and seats of Clipston Church, in* 1846, *I am happy to say that it gives general satisfaction. I can with confidence recommend it, not being at all liable to chip, as it stands and looks well at this time.*

We are, Sir, Yours truly,
ALFRED SHARMAN, Painter &c.
THOMAS WALKER, Rector of Clipston.
JOHN BROWN, Churchwarden."

"To Mr. Thomas Nixon, Rothwell."

"*Sir,*

Chailey, near Lewes, Sussex, April 14th. 1853.

I wish you to forward me the same quantity of Oil Stain you sent me last year. I can assure you that the Oil Stain I purchased of you at the Great Agricultural Show, last year, at Lewes, has given me every satisfaction; it has exceeded my expectations.

"*To Mr. Nixon, Rothwell.*"

I am, Sir, Yours faithfully, WILLIAM PEACOCK."

From Mr. Busby, Agricultural Implement Manufacturer.

"*Mr. T. Nixon, Sir,*

Newton-le Willows, near Bedale, April 20th. 1853.

I consider your Oil Stain a very first-rate article, and was highly satisfied with it.

I am, Sir, Your most obedient Servant, WILLIAM BUSBY.

"*Sir,*

Birmingham, January 2nd. 1854.

"*The Oil Staining executed by you at the several works under my direction, from the year* 1849 *to the present time has given me the greatest satisfaction. Your Oil Stain is, in my opinion, far preferable to imitations in paint for the interior wood work of houses, and at a cost scarcely that of common painting: it also possesses the advantage of not being liable to chip, and may, after several years use, be made to resume its first fresh appearance, at a trifling cost, by a coat of Varnish. Since my first trial of your Oil Stain I have recommended its use (in preference to paint) for all interior wood fittings, and those who have taken my advice have been highly satisfied with the result, its approval has been universal.*

"*Mr. Thomas Nixon, Rothwell.*"

I remain, Sir, Yours truly, JOHN G. BLAND, Architect."

"*Sir,*

Rothwell, April 4th, 1855.

I find your Oil Stain giving universal satisfaction, in many cases equal to paint, and for In-door Implements I think it better.

Yours most truly, W. BALL."

Among the Articles enumerated in the *Brighton Herald* of the 17th of July 1852, as *worthy of notice* at the Show of the *Royal Agricultural Society of England*, held at Lewes was the following:—

"*Nixon's Oil Stain will be found, we have no doubt, an excellent substitute for paint: and it is already used for Carts and Ploughs, as well as for Seats in Churches, &c.*"

Prepared only by the Inventor and Proprietor,
THOMAS NIXON, ROTHWELL, NORTHAMPTONSHIRE.

BY HER MAJESTY'S — SPECIAL WARRAN

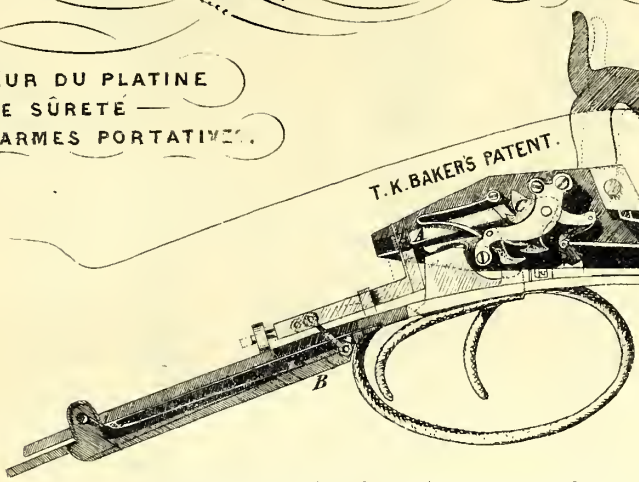
DIEU ET MON DROIT

THOS K. BAKER,

Arquebusier,

88 FLEET ST. — LO

INVENTEUR DU PLATINE
— DE SÛRETÉ —
POUR LES ARMES PORTATIVES.



Aun verrou as
dessus le levier
tiqué dans l'ax
se lève aussi bien

En mettant en joue, la main presse sur le levier B, et par cette
en pleine liberté le mouvement du serpentin.

L'Inventeur prie Messieurs les Chasseurs de vouloir
tion aux accidents graves et nombreux occasionnés par l'em
fusils.

Le platine dont il a l'honneur de leur exposer les mé
de tous ceux qui ont été imaginés auparavant, en ce que le
joue indépendamment des détentes, et que le serpentin se
dans toutes les positions dangereuses.

Fabricant de Fusils, Carabines et Pistolets de tout

Choix d'Armes, et de tout ce qui appartient

Fusil de Chasse à double Canon, Baguette et Mamelon extr
(de la meilleure Fabrique de Londres)
Fait en paires, avec Canons à reverser
Double Fusil de Chasse, à Ressorts de Sûreté, du Brevet de
Baker (de la meilleure Fabrique)
Fait en paires, avec Canons à reverser

Single & Do
Do Rifle.
Single Gun
Double do
Double do
Minié R.
Revolving
for Guns
for Cane
Walking
Load at
Breech Wr
Gun Cases
Black Car
Improved
Case Cover
Waterproof
Lock Cover
Pistol Case
Powder Fl
Shot Pouch
Single & D
Powder & S
Percussion
Wadding
Sheet Wa
Universal
Elwp's Wire
Do for lo
Gunpowder
Shot Ball
Ball Cast
Powder Sh
Shot Charg
Shot Scoop
Iron Lad
Cartridge
Bowie & Sp
Pouch Belt
Dog Shape
Dog Chain
Retriever
Greyhoun
Dog Leade
Dog Bells
Game Reg
Life Protec

Every desc

Thomas K. Baker,

Gun, Rifle, & Pistol Maker,

88, Fleet St., London.

Manufactory in Blackhorse Court.

---

uble Barrel Guns
s with all the latest improvements
s with Extra Rifle Barrels
with do
1 Barrel Rifled
fles
Chamber Rifles

s of all kinds
Brick Guns
Breech Guns
enches
in Oak or Mahogany
was Bag Cases
Leather do
, Canvas & Leather
Gun Covers

s of all kinds
Ho & Pistol Flasks
es Brass & Iron Tops
ouble Shot Belts
hot Magazines
Caps & Tubes
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Cartridges
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Carriers
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ngs
Chain Collars
rs & Couples
Slips
d Starters
rs — Dog Checks
— Dog Whips
sters
ors

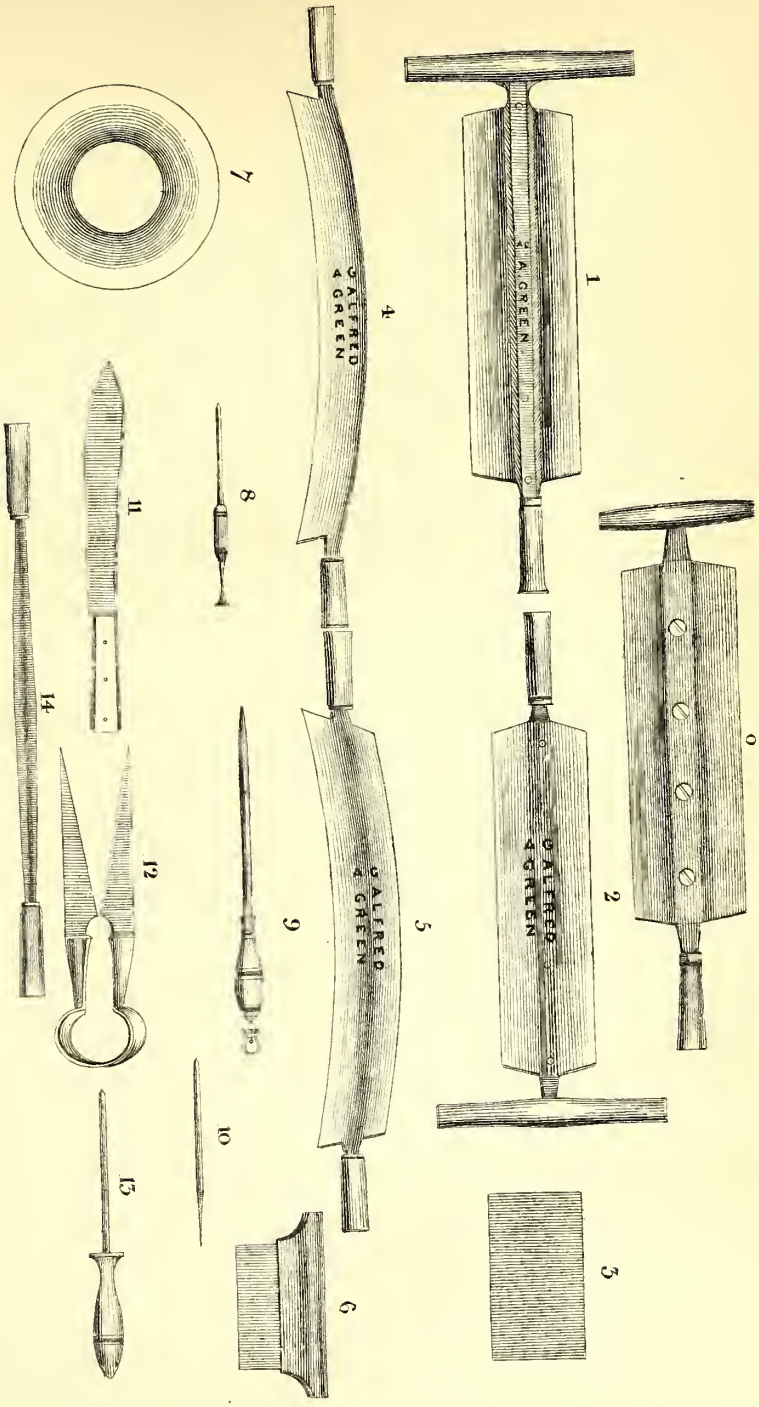
Pocket Pistols of all kinds
Officers' Holster Pistols
Single or Double
Revolvers of all sizes of the several Makers, and of the most approved construction
Saloon Pistols & Rifles
Needle Rifles
Bulletted Caps for do
Targets for do for Saloon practice
Bullet Moulds for the Round Ball, plain and Improved
Cone & Minié Moulds made to order
Nipples of all Sizes
Nipple Turners
Turnscrews
Lock Vices
Wadding Punches
Patch Punches & Boxes
Nipple Primers plain & Improved
Cleaning Rods
Do Jointed & Apparatus
Jags Worms & Brushes
Loading Rods, Ram & Jointed
Cane do with Worm in Nob
Improved folding do
Leather Rod Pipes
Gun Slings
Knapsacks
Gun Rack Rings
Swivels
Maroon Locks & Maroons
Signals & Harm Guns for Preserves
Dog Whistles in Horn, Ivory and Metal
Railway do
Foils, Masks & Gloves
Flents — Tow
Clarified Oil for Locks
Lock Brushes
Oil Bottles
Nipple Cleaners
Dram Bottles in Metal, Leather, and Basket, with Caps
Large do to Sling
Pork Kegs Mounted & Straps
Game Bags
Rifle Ball Pouches & Belts
Rifle Slings

ription of Materials in the rough & finished state — Barrels, Locks, Furniture Stocks, Ramrods, Pins, Screws, Springs, &c. &c.

THE TRADE SUPPLIED.

ALFRED GREEN,

MANUFACTURER OF



THE CELEBRATED

CURRIER & TANNER'S KNIVES,

TOOLS, &c.,

POND STREET, SHEFFIELD.

WILLIAM SMEE & SONS,

CABINET MAKERS AND UPHOLSTERERS,

No. 6, FINSBURY PAVEMENT,

LONDON.

Exhibitors at the Paris Universal Exhibition,

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Their BOOK of DESIGNS of FURNITURE contains Engravings of more than 600 Articles, as enumerated below.

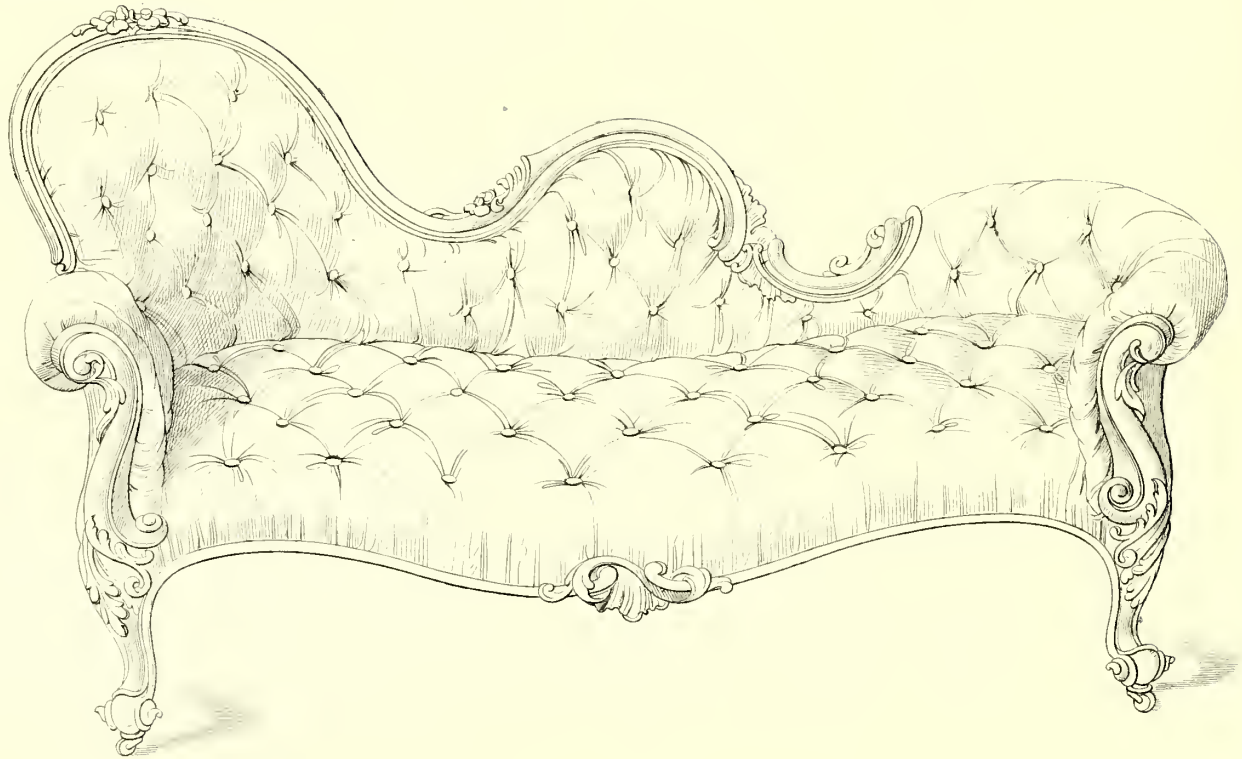
SEE SPECIMEN ON OPPOSITE PAGE.

PRICE £4. 4*s*.

A Stock of most of the Articles is always kept ready for sale at their Warerooms, and of which they respectfully solicit inspection.

Bagatelle Board and Table.
Bassinett.
Bedside Seats.
Bedsteads, "Asylum."
,, Canopy.
,, Cots.
,, Cribs.
,, Fourpost.
,, French.
,, Half-Tent Top.
,, Half-Tester.
,, Horse.
,, Ottoman Chair.
,, Press.
,, Stump.
,, Tent.
Bedsteps.
Benches, Hall.
Bidets.
Blinds.
Bookeases.
Bracket for Piers.
Canterburys.
Chairs, Bed.
,, Bed-room Easy.
,, Chamber.
,, Children's.
,, Devotional.
,, Dining-room and Parlour.
,, Drawing-room.
,, Hall.
,, Lounge.
,, Occasional and Fancy.
,, Ottoman Bed.
,, Reading.
,, Stained.
,, Vesper.
,, Windsor.
Cheffoniers.
Chests of Drawers, *see* Drawers.
Corniees for Windows.
Cots.
Couches and Sofas.
Conversation Seats and Settees.
Cribs.
Davenports.
Dinner Waggons.
Drawers.
Dress Stands.
Dressing Tables, *see* Tables.
Flap Stands.
Foot Stools.
Girandoles.
Glasses, Cheval Dressing.
,, Chimney.
,, Console.
,, Dressing.
,, Pier.
Hall Benches, *see* Benches.
,, Chairs, *see* Chairs.
Hat Stands, *see* Stands.
Knife Trays, *see* Trays.
Music Stools, *see* Stools.
,, Stands, *see* Stands.
Night Conveniences.
Ottomans.
Pedestals, of Drawers.
,, Seagliola.
Portable Water Closets.
Pot Cupboards.
Presses, Table Cloth.
Reading Stands, *see* Stands.
Rising Side Tables, *see* Tables.
Sarcophagus.
Screens, Chair-back.
,, Dining-room.
,, Drawing-room.
,, Folding.
Seats, Bedside.
,, Conversation, *see* Conversation Seats.
,, Ottoman, *see* Ottomans.
Settees, *see* Conversation Seats.
Sideboards.
Sofas, *see* Couches, &c.
Stands, Dress.
,, for loose Boards of Dining Tables.
,, Hat and Umbrella.
,, Music.
,, Portfolio.
,, Reading.
,, Tray.
Stools, Fishing.
,, Foot.
,, Music.
Tables, Bagatelle.
,, Bed-room.
,, Card.
,, Centre or Loo.
,, Console.
,, Coffee, Chess, and Small Occasional.
,, Dining.
,, Dining, Legs of.
,, Drawing-room Writing.
,, Dressing.
,, Fancy.
,, Folding and Pembroke.
,, Hall.
,, Invalid.
,, Library and Office.
,, Occasional.
,, Pembroke and Folding.
,, Pier.
,, Rising Side.
,, Sets of Trio.
,, Small Occasional.
,, Sofa, *see* Occasional.
,, Work.
,, Writing.
Tea Poys.
Towel Horses.
Trays, Butlers', Knife, and Sandwich.
Wardrobes.
Wash Stands.
Water Closets, Portable.
Whatnots.

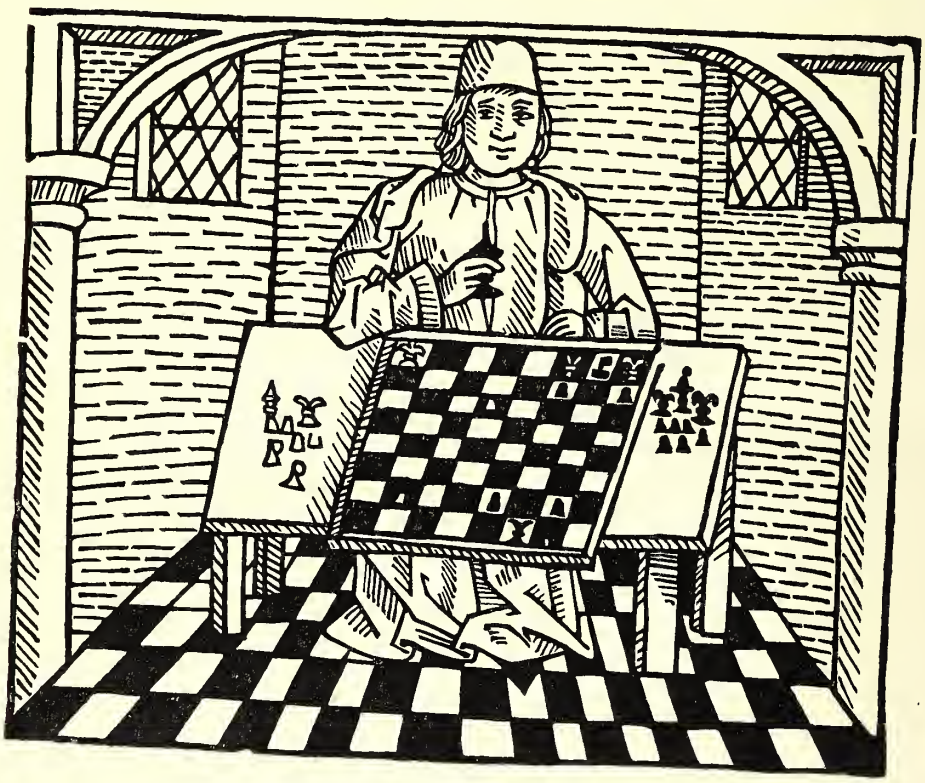
N.º 38 Couch



The Game of the Chesse.

A Reproduction of the First Work Printed in England, price £2. 2s. Bound in Calf.

This chappytre of the fyrst tractate sheWyth Who fondy first the playe of the Chesse. Capitulo ij



His playe fonde a phylosopher of thozyent Whyche t Was named in caldee Eyerses or in greke philemezoz Which is as moche to say in englisshe as he that louyth Justyce and mesure / And this philosopher Was renomed gretly among the grekes and them of Athenes Whyche Were good clerkys and phylosophers also renomed of theiz connyng / This philosopher Was so Just and treWe that he had leuer dye / than to lyue longe and be a fals flatezer With the sayde kyng / Foz Whan he beheld the foul & synful lyf of the kyng · And that no man durst blame hym

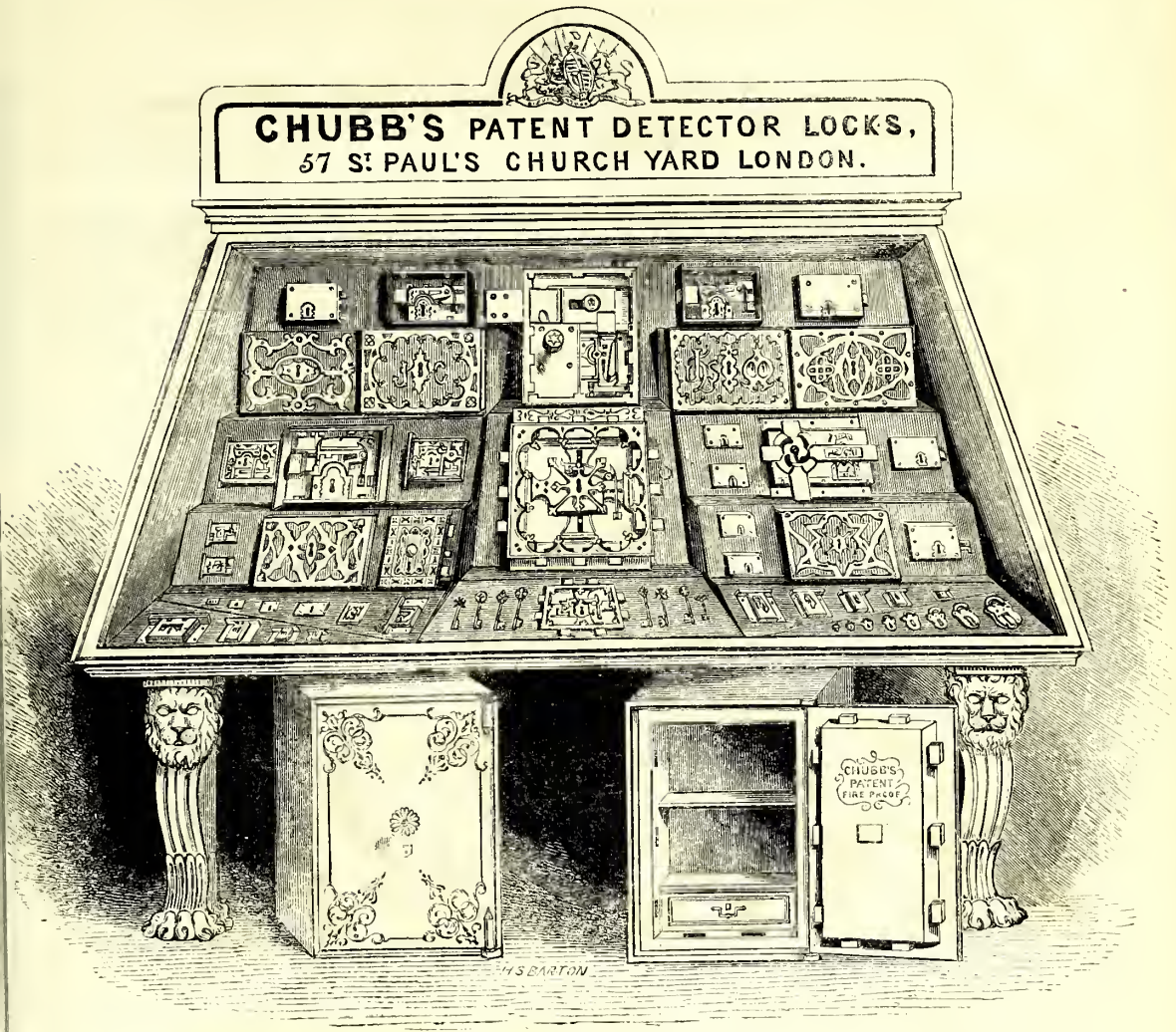
PUBLISHED BY VINCENT AND JAMES FIGGINS, TYPE FOUNDERS,
17 & 18, WEST STREET, SMITHFIELD, LONDON.

PARIS UNIVERSAL EXHIBITION OF 1855.
Palais Gallery, No. 1957 a.

The profit to be devoted to the Endowment of the Printers' Almshouses, as a Tribute to the Memory of Caxton.

By Appointments,

MANUFACTURERS TO THE QUEEN AND H. R. H. PRINCE ALBERT.



GREAT EXHIBITION OF 1851.

"CHUBB & SON—FOR LOCKS, Prize Medal and Special Approbation."

Chubb's Locks have now been used for more than thirty years by Bankers, the Governments of this and other Countries, and by many hundreds of thousands of individuals, and no instance has ever occurred of any robberies having taken place through these Locks having been picked or opened by false Keys. The great care exercised in their manufacture, and the moderate prices at which they are sold, still cause them to maintain their pre-eminent position as the most secure Locks for general as well as special purposes.

CHUBB & SON have invented and applied such improvements in the manufacture of their Locks, as to combine the greatest security with that simplicity which is essential to Locks used for ordinary purposes. They have lately added, besides other improvements, a Patented Invention of great simplicity, which will in future be applied without any additional cost. This addition consists of a contrivance, by which, if a false Key or Pick should be inserted, and turned even a small part of the way round, a metal curtain entirely closes up the whole opening, so that all access to the works is effectually cut off, and no Picks can be worked.

TESTIMONIALS TO THE SECURITY OF CHUBB'S LOCKS.

From A. F. Tracey, Esq., Governor of the Westminster House of Correction.

"House of Correction, Westminster, March 11, 1850.

"I am of opinion, after an experience of nearly sixteen years, that your Locks are admirably adapted for every use in prisons, and wherever security is deemed an important consideration."

From Mr. Pearce, Superintendent of the A. Division, Metropolitan Police.

"Great Exhibition, Hyde Park, 29th October, 1851.

"GENTLEMEN,—I can say, after 27 years' experience as an officer in the Old and Metropolitan Police, that I have never known an instance of a robbery having been committed by picking one of your Locks."

From Mr. Otway, Superintendent of C. Division, Metropolitan Police.

"8, Great Vine Street, 3rd May, 1853.

"GENTLEMEN,—I have the pleasure to inform you, that having one of your Locks on the street door of my house prevented my being robbed last night.—I am, Gentlemen, your obedient Servant,

"Messrs. Chubb & Son." "C. OTWAY.

From the Cashier of the Dundee Bank.

"An attempt was made upon this Bank on the night of 31st January, 1852, by a set of thieves evidently quite accomplished in their profession. They selected for their operations an iron door secured by one of Chubb's Locks, in attempting to pick which all their ingenuity was at first expended; but the only alternative was the tedious and laborious one of boring into the Lock, in order to destroy it. Before this could be accomplished a sudden alarm made them take to flight; but the work done in boring, &c., could not have occupied less than four or five hours. In their flight they left all their implements behind them, including a perfect set of Lock-picking instruments, being amply furnished for their work."

From the London and North Western Railway Company, Liverpool.

"17th May, 1853.

"GENTLEMEN,—I have much pleasure in bearing testimony to the efficiency of the Iron Door and Locks of your make, which secure the Strong Room at this Office, and which completely baffled the efforts of one or more Burglars to get at the Money Chest, on the night of Thursday last, although it is evident that considerable force was used to break open the Door.—I am, Gentlemen, your obedient Servant,

"Messrs. Chubb & Son." "GEO. PALMER.

PRICES OF CHUBB'S PATENT DETECTOR LOCKS,

WITH SIX TUMBLERS, AND TWO KEYS EACH.

OBSERVE—To prevent imposition, every Lock has a separate Number, and is marked with the Name and Address of the Patentee, thus—"CHUBB'S PATENT, 57, ST. PAUL'S CHURCH YARD, LONDON."

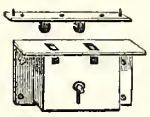
Till or Drawer.

	s.	d.
To 3 inch . . .	10	0

Cupboard.

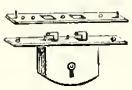
	s.	d.
To 4 inch . . .	10	0
4 × 2½ . . .	11	6
4 × 3 . . .	13	0
4½ × 3 . . .	15	0

Box or Sloping Desk.



	s.	d.
To 2½ inch . .	11	0
3 inch . . .	11	6
3½ ,, . . .	12	0
4 ,, . . .	13	6
4½ ,, . . .	14	6

Mortise Desk.



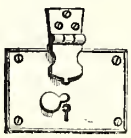
Brass Pad.

	s.	d.
¾ inch	12	6
⅞, 1, and 1¼ inch	11	0
1½ inch	11	6
1¾ ,, ...	12	6
2 ,, ...	13	6
2¼ ,, ...	14	6
2½ ,, ...	15	6
3 ,, ...	16	6
3½ ,, ...	17	6

Portfolio.

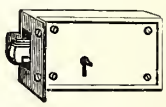
	s.	d.
. . . . .	10	0

Portmanteau.



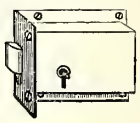
	s.	d.
To 3 inch . . .	15	0
3½ inch	18	0
4 ,, ...	20	0
4½ ,, ...	20	0

Patent Combination Latches, FOR STREET DOORS.



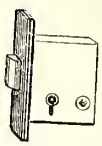
	s.	d.
To 4 inch . . .	13	0
5 inch	14	0
6 ,, ...	15	0

Flush Spring Latches FOR STREET DOORS.



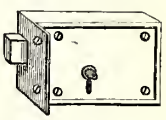
	s.	d.
3½ inch	20	0
4 ,, ...	20	0
4½ ,, ...	21	0
5 ,, ...	21	0
6 ,, ...	22	0

Mortise Latches FOR STREET DOORS. With very Small Keys.



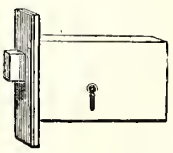
	s.	d.
2½ inch	25	0
3 ,, ...	25	0
3½ ,, ...	25	0
4 ,, ...	25	0
4½ ,, ...	25	0

Rim Dead Locks, FOR STORE-ROOMS, CELLARS, WAREHOUSES, &c.



	To lock on one side only.		To lock on both sides.	
	s.	d.	s.	d.
4 in.	20	0	23	0
5 ,,	20	0	23	0
6 ,,	21	0	23	0
7 ,,	23	0	26	0
8 ,,	27	0	29	0
9 ,,	31	0	34	0
10 ,,	40	0	44	0
12 ,,	52	0	57	0

Mortise Dead FOR WAREHOUSES, Store-Rooms, &c. Or as Extra Locks on Inner Doors.



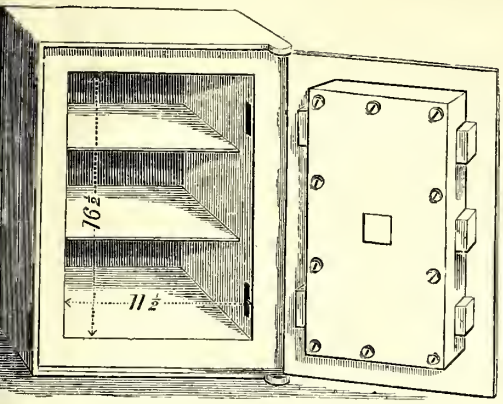
	s.	d.
3 inch	22	0
4 ,, ...	23	0
5 ,, ...	24	0
6 ,, ...	27	0
7 ,, ...	32	0

CHUBB'S FIRE-PROOF STRONG WROUGHT IRON SAFES.

The Doors all fitted with CHUBB'S PATENT DETECTOR LOCKS, containing all the IMPROVEMENTS, throwing three strong Bolts in front, and with strong Iron Dogs at the back.

No. 1. **Price £8 15s. 0d.**

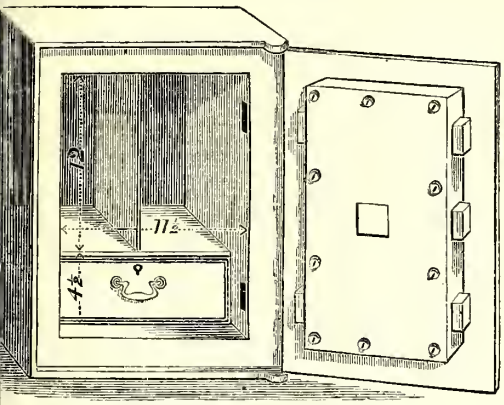
21 Inches high, outside measure.
16 do. wide, ditto.
14 do. deep, ditto.



9 Inches deep clear inside.

No. 4. **Price £10 5s. 0d.**

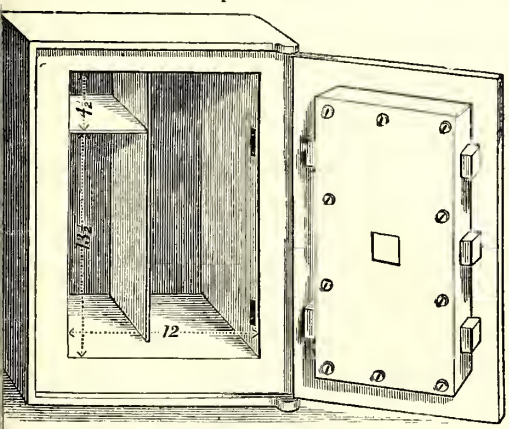
21 Inches high, outside measure.
16 do. wide, ditto.
14 do. deep, ditto.



9 Inches deep clear inside.

No. 6. **Price £10 0s. 0d.**

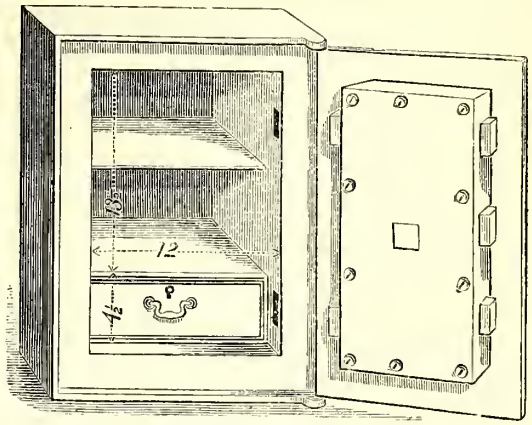
23 Inches high, outside measure.
17 do. wide, ditto.
17 do. deep, ditto.



11½ Inches deep clear inside.

No. 7. **Price £11 10s. 0d.**

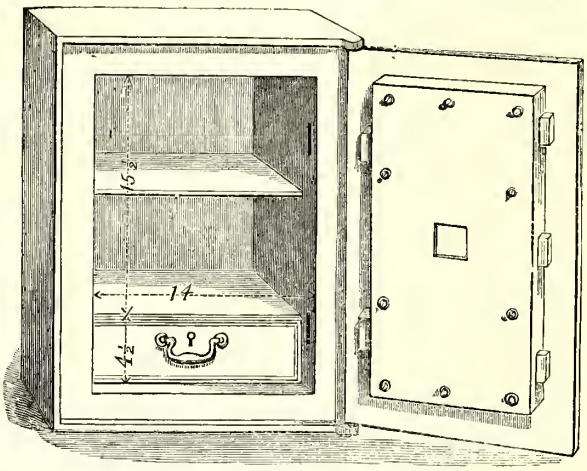
23 Inches high, 17 Inches wide, 17 Inches deep, outside measure.



11½ Inches deep clear inside.

No. 11. **Price £13 15s. 0d.**

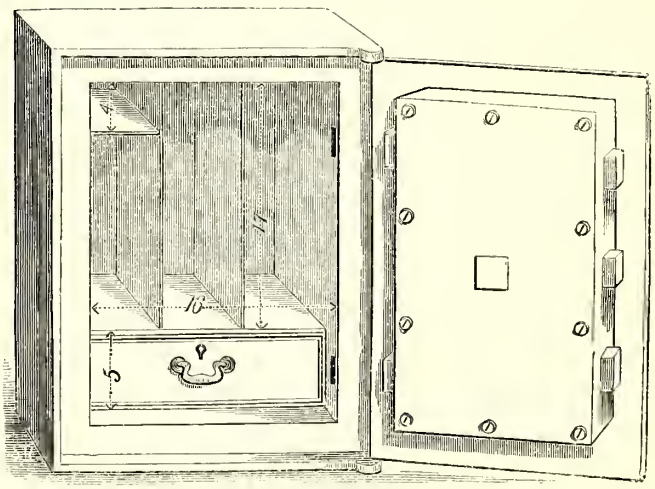
25 Inches high, 19 Inches wide, 19 Inches deep, outside measure.



13½ Inches deep clear inside.

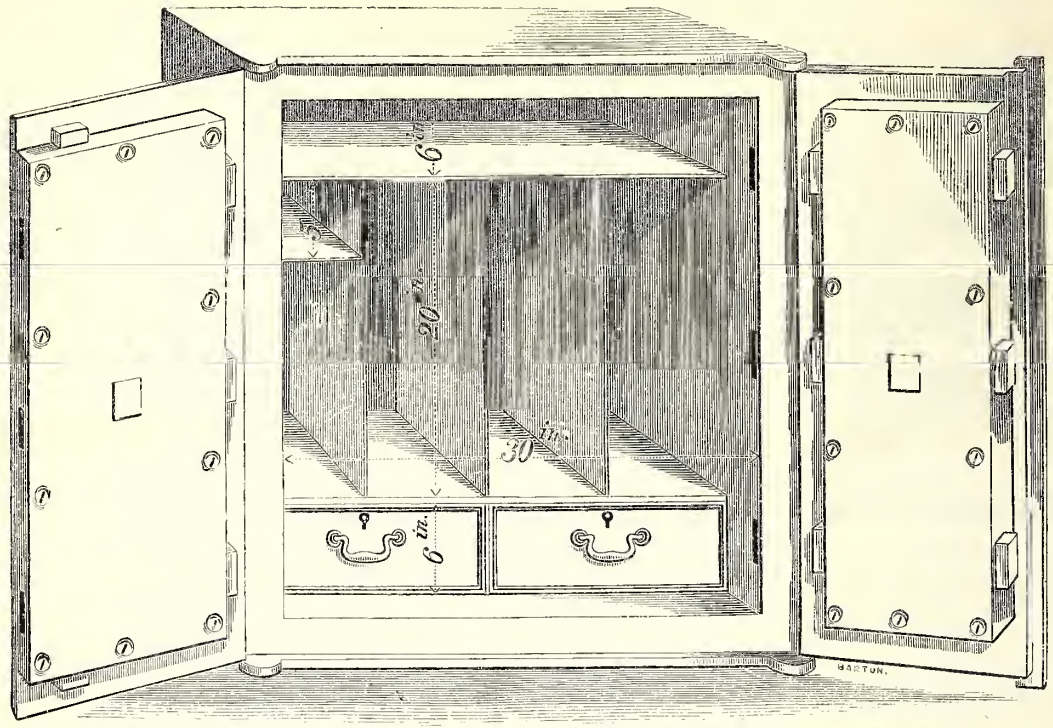
No. 16. **Price £16 0s. 0d.**

27 Inches high, 21 Inches wide, 21 Inches deep, outside measure.



15½ Inches deep clear inside.

CHUBB'S FIRE-PROOF STRONG WROUGHT IRON SAFES.



No. 31. 39 Inches high, 36 Inches wide, 23 Inches deep, outside measure. **Price £37 10s. 0d.**

16½ Inches deep clear inside.

ABSTRACTS OF TESTIMONIALS TO THE SECURITY OF CHUBB'S FIRE-PROOF SAFES.

In the Great Fire at Messrs. Rylands and Sons', Manchester, 1st March, 1854, the whole of the Books, Papers, and Cash were preserved in one of Chubb's Fire-proof Safes, after it had been subjected to FOURTEEN HOURS' INTENSE HEAT.

In the Fire at Messrs. Wm. Jones and Sons, Store Street Mills, Manchester, on 15th May, 1854, all the Cash, Notes, Policies, &c., were enclosed in a Chubb's Fire-proof Safe, which, being built in a chimney-flue, was exposed to an extraordinary amount of heat, yet the contents were found PERFECTLY UNINJURED.

Unsuccessful Attempt to Blow Open a Chubb's Safe with Gunpowder.—On the night of 30th August, 1854, some burglars broke into the counting-house of Mr. Blair, Irk Mills, Manchester, and introduced a very heavy charge of GUNPOWDER into the keyhole of a Chubb's Safe, endeavouring, by firing it, to force open the safe, but were unsuccessful, although the force of the explosion was so great as to move the Safe some inches from its position.

At the extensive Fire in Bread Street, Cheapside, on January, 1854, when the premises of Messrs. Townend and others were destroyed, the adjoining warehouse of Messrs. Liddiard and Co. was preserved by means of a Chubb's Fire-proof Door fixed in the party-wall.

Fire at the Manchester, Sheffield, and Lincolnshire Railway Offices, Manchester.—In this Fire, on 25th November, 1854, one of Chubb's Fire-proof Safes was exposed to such intense heat that all the brass handles and knobs were melted off, yet all its contents, consisting of valuable books, bank-notes, &c., escaped without the slightest injury.

Burglary Defeated.—On 8th February, 1855, the office of Messrs. T. and S. Jones, of Wolverhampton, was broken into, and the thieves made a violent attack upon a Chubb's Thief-proof Safe, which contained a large sum of money. They spared no efforts, having broken several very strong housebreaking instruments in the attempt, and considerably disfigured the Safe, but were obliged to retire without effecting their object.

The only Fire-proof Safes in the United Kingdom which received the award of the Prize Medal, with "Special Approbation," at the Great Exhibition of 1851, were of Chubb and Son's manufacture. The decision of the Jury is therefore conclusive of the great superiority of Chubb's Fire-proof and Thief-proof Safes against Fire or Thieves. They are made of the strongest Wrought Iron, and the Fire-proof Linings are filled with the best proved non-conductors of heat, being put together so strongly as to resist the falling of timbers, brick-work, &c., in case of fire.

Japanned Cash, Deed, Paper, and Writing Boxes; Morocco Despatch Boxes, &c., of all sizes, fitted with the Patent Detector Lock.

IRON DOORS AND FRAMES FOR STRONG ROOMS.

COMPLETE ILLUSTRATED LISTS, WITH PRICES AND SIZES, WILL BE SENT ON APPLICATION.

CHUBB AND SON,

57, St. Paul's Churchyard, London; 28, Lord Street, Liverpool; 16, Market Street, Manchester; and Horseley Fields, Wolverhampton.

JENNENS AND BETTRIDGE'S

PRICE LIST

OF

PAPIER MÂCHÉ

(ILLUSTRATED).

JENNENS AND BETTRIDGE,

PAPIER MÂCHÉ MANUFACTURERS, BY SPECIAL APPOINTMENTS,

To Her Majesty,

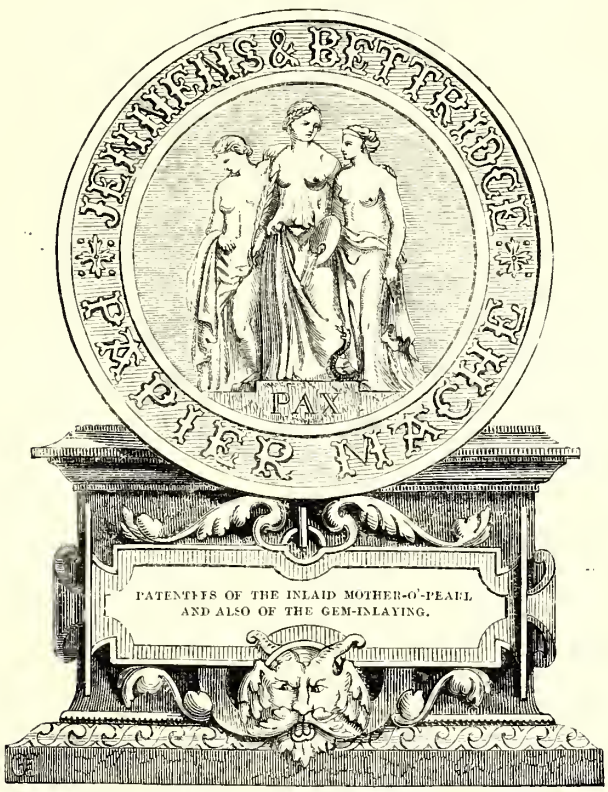
H. R. H. Prince Albert, and the Royal Family,

6 HALKIN STREET WEST, BELGRAVE SQUARE,

LONDON;

AND 99 CONSTITUTION HILL,

BIRMINGHAM.



JENNENS and BETTRIDGE had the honour of receiving the only Medal awarded to this Manufacture by the Jurors of the Great Exhibition of 1851; the Gold Medal, and Honorary Testimonial of the Society of Arts; and also the Prize Medal of the New York Exhibition.

JENNENS AND BETTRIDGE,

In submitting a List of their recent productions in Papier Mâché, beg to remark, that this beautiful material possesses the great advantage of not being affected by climate, neither expanding by heat nor contracting by cold.

It combines lightness and elegance with strength and durability. Its close texture and smooth surface admit of a most brilliant polish, and it is susceptible of the most chaste and most gorgeous ornamentation.

Jennens and Bettridge use two distinctly different modes of manufacture—the one, that of pasting Sheets of Paper upon Moulds; and the other, pressing between Dies the Pulp of Paper: the former process is adopted for the best Wares, and the latter for those only in the production of which a low price is the principal consideration. Articles made by the last-named method are inferior in surface and less durable.

In the Japanning of Iron Tea Trays and other wares, Jennens and Bettridge adopt the same process of finishing as in the cheaper kinds of Papier Mâché, and their appearance when finished is almost precisely similar.

The Inlaying of Mother-o'-Pearl, patented by Jennens and Bettridge, has excited universal admiration; and their recently-patented process, by which they obtain the exact effect of Inlaid Gems, is also most highly approved.

In addition to articles of utility and ornament for which Papier Mâché is employed, Panels and Pilasters for decoration in this material are much appreciated, and the Saloons of several first-class Steam Vessels are now being decorated with them by Jennens and Bettridge.

Their manufactures being so numerous and varied (consisting of Tables, Chairs, Tea Trays, Ink Stands, Writing Desks, &c. &c.), Jennens and Bettridge for convenience of reference made the List Alphabetical.

CATALOGUE.

	Octavo.				Quarto.			
ALBUMS—	*s.*	*d.*		*s.* *d.*	*s.*	*d.*		*s.* *d.*
Inlaid Pearl Flowers	8	0	to	18 0	15	0	to	25 0
„ Pearl and Gold	10	0	„	20 0	18	0	„	30 0
Painted Views—subjects after Landseer, &c. .	15	0	„	30 0	25	0	„	40 0
Patent Inlaid Gems	15	0	„	30 0	30	0	„	70 0
Rich and Elaborate	20	0	„	40 0	40	0	„	100 0
BLOTTING-BOOKS OR PORTFOLIOS—								
Inlaid Pearl Flowers	2	0	„	10 0	4	0	„	15 0
„ Pearl and Gold	3	0	„	12 0	6	0	„	18 0
„ Painted Flowers or Fruit . . .	5	0	„	15 0	10	0	„	25 0
„ Pearl, Seashells, and Seaweed . .	6	0	„	16 0	12	6	„	27 6
„ Painted Views, Subjects, &c. . .	8	0	„	18 0	15	0	„	30 0
„ Patent Inlaid Gems	10	6	„	25 0	25	0	„	60 0
„ Rich and Elaborate	15	0	„	30 0	30	0	„	80 0

BRACELETS—	Plain Black.	Inlaid Pearl.
Circular Beads . .	1*s.* per pair.	2*s.* per pair.
Ornamental . .	2*s.* „	5*s.* „

BREAD BASKETS:—
Gold Lines, from 6*s.* to 12*s.*
Gold Ornaments, from 7*s.* to 16*s.*
Inlaid Pearl and Gold, from 10*s.* to 20*s.*
Japanned Iron and Tin in the above Styles, from 1*s.* 6*d.* to 10*s.*

BREAD PLATTERS:—
From 5*s.* to 15*s.*

BACKGAMMON BOARDS:—
From 15*s.* to 30*s.*

BELLOWS:—
Varied Styles, from 5*s.* to 20*s.*

BOTTLE STANDS:—
Varied Styles, 5-inch, from 6*s.* to 20*s.* per pair.
Ditto 6-inch, from 7*s.* 6*d.* to 25*s.* per pair.

CARD BOXES:—
1 Pack, Inlaid Pearl Flowers, &c., from 5*s.* to 15*s.*
2 ditto ditto 7*s.* 6*d.* to 20*s.*
4 ditto ditto 12*s.* to 25*s.*
4 Pack, with loose inside Boxes in Inlaid Pearl and other Styles, from 25*s.* to 40*s.*
4 Pack, rich and elaborate, from 50*s.* to 100*s.*

CARD POOLS:—
Varied Styles, from 12*s.* to 60*s.* per dozen.

CARD RACKS:—
Varied Styles, from 10*s.* 6*d.* to 25*s.* per pair.
Ditto rich and elaborate, from 20*s.* to 50*s.*

CARD BASKETS AND PLATES WITH HANDLES (see Fig. 3):—

	6-Inch.	8-Inch.	10 Inch.
Inlaid Pearl Flowers	3*s.* 6*d.* to 5*s.*	4*s.* 6*d.* to 7*s.*	5*s.* to 10*s.*
Inlaid Pearl and Gold	4*s.* to 8*s.*	5*s.* to 10*s.*	6*s.* to 15*s.*
Painted Flowers or Fruit	6*s.* to 9*s.*	7*s.* 6*d.* to 12*s.*	9*s.* to 18*s.*
Painted Views, Subjects, &c. . . .	7*s.* to 10*s.*	9*s.* to 16*s.*	12*s.* to 20*s.*
Painted Inlaid Gem . .		. .	20*s.* to 30*s.*
Rich and elaborate . .		. .	25*s.* to 40*s.*

Fig. 1.

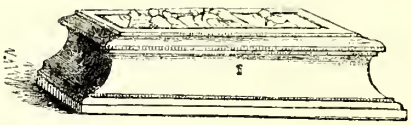


Fig 2.

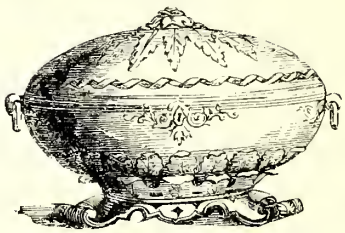


Fig. 3.

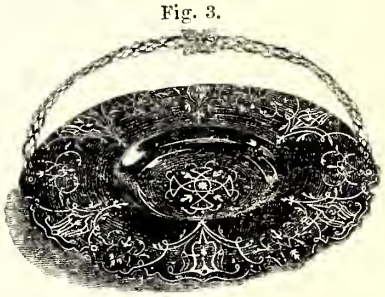
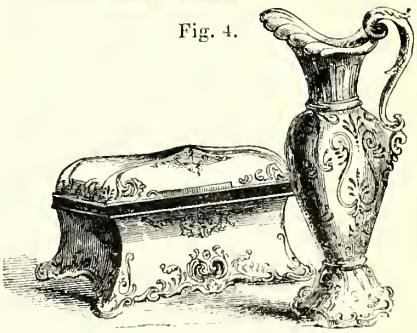


Fig. 4.



CHAIRS (see Figs. 5, 6, 7, and 8):—

Occasional, Pearl and Gold, from 14*s.* to 30*s.*
Drawing-Room (Cabriole Legs), from 30*s.* to 50*s.*
Ditto Easy, from 60*s.* to 90*s.*
Drawing-Room, Elizabethan, from 47*s.* to 70*s.*
Ditto Prie-Dieu, from 47*s.* to 70*s.*
Ditto Rich and elaborate, 60*s.* to 200*s.*

Mem.—Styles of Ornamentation, Inlaid Pearl Flowers, Inlaid Pearl Sea-shells, Landscape and Subjects, Pearl and Gold Ornaments upon Black, Marone, and other Coloured Grounds.

Fig. 5.

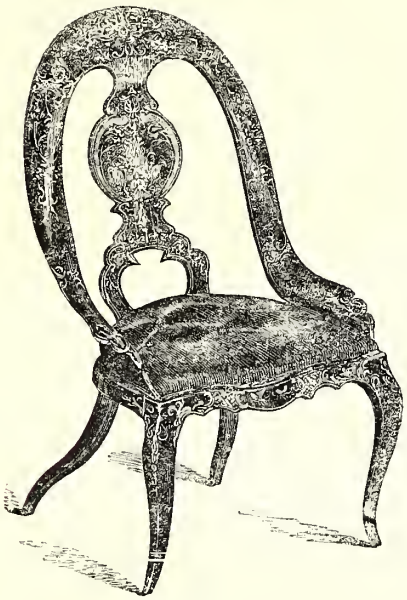


Fig. 6.

Fig. 7.

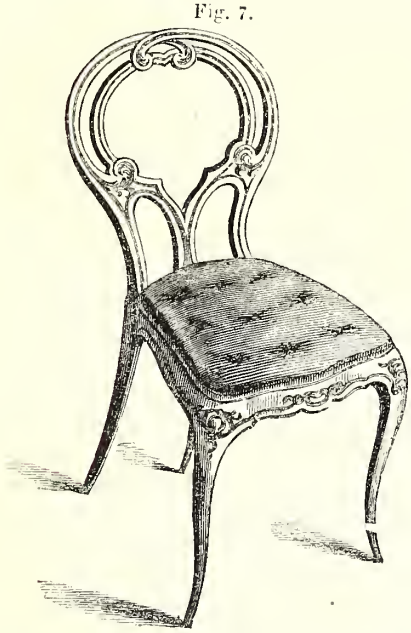


Fig. 8.

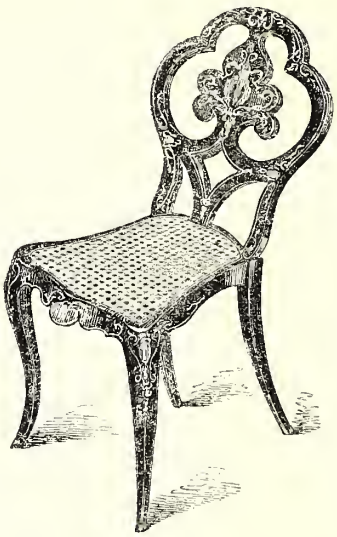


Fig. No. 5 represents an "Easy Chair" Inlaid with Pearl and Gold Ornaments (with Velvet Seat), price £5. The same Size and Description of Chair, less highly finished, varies from 70*s.* upwards.
Fig. No. 6 represents a richly ornamented Chair, in Pearl, Gold, and Colours, at 60*s.*
Fig. No. 7 represents a light elegant Chair, ornamented with Gold Scrolls and Lines, at 33*s.* The same Form, Inlaid with Mother-o'-Pearl, at 50*s.*
Fig. No. 8 represents a graceful Chair with Gold Ornaments, at 33*s.*; and Inlaid with Mother-o'-Pearl, at 40*s.*

CARD CASES :—
Black, from 3*s.* to 5*s.*
Inlaid Pearl Flowers, from 4*s.* to 10*s.*
Inlaid Pearl and Gold, from 5*s.* to 12*s.*
Painted Views, Subjects, &c., from 8*s.* to 15*s.*
Rich and elaborate, from 15*s.* to 30*s.*

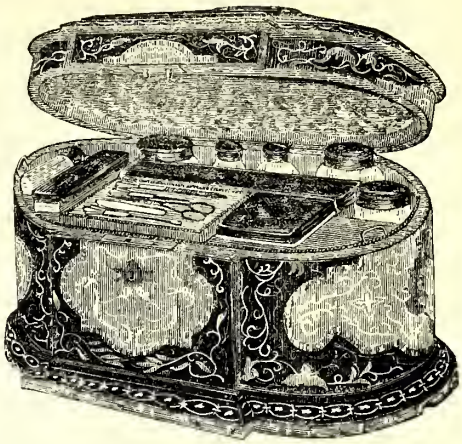
CIGAR BOXES :—
Sporting Subjects, Inlaid Pearl or Painted, from 15*s.* to 40*s.*
Rich and elaborate, varied Styles, from 30*s.* to 50*s.*

CIGAR CASES :—
Varied Styles, from 7*s.* 6*d.* to 15*s.*
Rich and elaborate, 10*s.* to 20*s.*

CASKETS (See Fig. 2) :—
Varied Styles, from 30*s.* to 80*s.*, richly lined with Velvet, &c.

CLOCK CASES AND STANDS :—
Varied Styles, from 10*s.* to 25*s.*

Fig. 9.



CABINETS :—

	8-Inch.	10-Inch.	12-Inch.	14-Inch.
Varied Styles, from .	40*s.* to 50*s.*	50*s.* to 60*s.*	60*s.* to 80*s.*	80*s.* to 100*s.*
Rich and elaborate, from .	. .	. .	80*s.* to 100*s.*	100*s.* to 160*s.*

Cabinets, larger Sizes, from £7 to £20.

CHEFFONIERS :—
Varied Sizes, Shapes, and Styles, from £10 to £35.

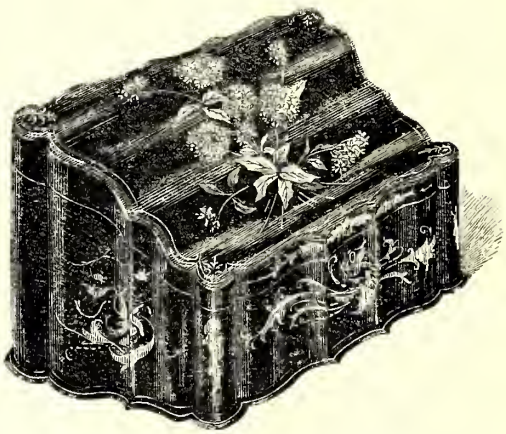
COUCHES :—
Varied Forms and Styles, from £7 10*s.* to £30.

CROCHET BOXES (see Fig. 1) :—
Inlaid Pearl and Flowers, from 7*s.* to 20*s.*
Of varied Forms and Styles of Ornamentation, from 10*s.* to 30*s.*
Rich and elaborate, from 20*s.* to 40*s.*

CARD TABLES—
Of graceful Forms, *en suite* with other Furniture, and ornamented with Pearl, Gold, &c., from 80*s.* to £10.

CHESS TABLES :—
Plain Forms, Inlaid Pearl, Square Centres, and Pearl Borders, from 30*s.* to 80*s.*
Ornamental Forms, ditto · ditto 40*s.* to 100*s.*
Rich and elaborate, in the various approved Styles, from £7 to £15.

Fig. 10.



CHESS BOARDS :—
Inlaid Pearl, Square Centres, and Pearl Flowers on Border, &c., from 20*s.* to 30*s.*
Ditto ditto made to fold as a Book, and arranged inside for Backgammon, 16 in., 30*s.* to 40*s.*
Ditto ditto ditto 18 in., 35*s.* to 50*s.*
Ditto ditto ditto 20 in., 40*s.* to 60*s.*

Fig. 11.

COFFEE (OR TRIO) TABLES :—
Plain Forms, simple Styles, from 60*s.* to 80*s.* per set of three.
Ornamental Forms and more richly decorated, from 80*s.* to 100*s.* per set of three.
Elaborately wrought in various Styles, from £5 to £10 per set of three.

CHEVAL SCREENS :—

Simple elegant Forms upon Centre Stands, decorated with Inlaid Pearl Flowers, &c., from 60*s.* to 100*s.*
Ornamental Forms upon End Supporters, varied Styles, 100*s.* to 200*s.*
Rich and elaborate, from 20*s.* to 50*s.*

DEVONPORTS OR ESCRITOIRES—

Of various Forms, plain or ornamental, and decorated in all the approved Styles, from £6 to £20.

DOOR PLATES, BLACK :—

Square Ends, Round Ends, and Gothic Ends, 1*s.* 6*d.* to 2*s.* 6*d.* per Pair.
In various Styles of Decoration, from 3*s.* to 6*s.* 6*d.* per Pair.
Rich and elaborate, from 7*s.* 6*d.* to 15*s.* "
Patent Inlaid Gems, from 15*s.* to 30*s.* "

DOOR KNOBS (Mortise Furniture) :—

Black, 6*s.* per Set.
Varied Styles of Decoration, from 7*s.* to 10*s.*
Ditto ditto rich and elaborate, from 12*s.* to 20*s.*

DAGUERREOTYPE CASES :—

All the various Sizes and Styles, from 3*s.* 6*d.* to 20*s.* each.

DRESSING CASES (see Fig. 9) :—

	10-Inch.	11-Inch.	12-Inch.	14-Inch.
Inlaid Pearl Flowers .	from 50*s.* to 70*s.*	60*s.* to 80*s.*	70*s.* to 90*s.*	80*s.* to 100*s.*
Inlaid Pearl and Gold .	do. 60*s.* to 80*s.*	70*s.* to 95*s.*	80*s.* to 105*s.*	90*s.* to 120*s.*

Mem.—These Prices include Plated Fittings; Silver are from 40*s.* to 100*s.* extra.
From these Prices to £50, depending upon the Size, Shape, Style of Ornamentation, and Value of the Internal Fittings.
The Fig. 9 represents a 14-inch Case, richly Inlaid Pearl, Gold, &c., with Silver Fittings, £20; Plated £15.

ENVELOPE CASES (see Figs. 10 and 11) :—

	6 Inch.	7-Inch.	8-Inch.
Inlaid Pearl Flowers	from 10*s.* to 15*s.*	14*s.* to 21*s.*	20*s.* to 30*s.*
Inlaid Pearl and Gold . . .	do. 12*s.* to 18*s.*	18*s.* to 25*s.*	24*s.* to 35*s.*
Painted Flowers or Fruit . . .	do. 14*s.* to 20*s.*	20*s.* to 28*s.*	28*s.* to 40*s.*
Painted Views	do. 12*s.* to 18*s.*	18*s.* to 25*s.*	24*s.* to 35*s.*
Painted Subjects from Landseer, &c. .	do. 14*s.* to 20*s.*	20*s.* to 28*s.*	28*s.* to 40*s.*
Pearl Sea Shells and Sea Weed . .	do. 14*s.* to 20*s.*	20*s.* to 28*s.*	28*s.* to 40*s.*
Patent Inlaid Gems	do. 18*s.* to 25*s.*	25*s.* to 35*s.*	35*s.* to 60*s.*
Rich and elaborate	do. 20*s.* to 30*s.*	28*s.* to 42*s.*	40*s.* to 60*s.*

Larger Sizes at proportionate Prices.

FLOWER STANDS :—

Elegant and Classic Forms (as Fig. 24) ornamented appropriately, £5 each.
More ornamental Forms and expensive Styles, from £6 to £10.

FOLDING SCREENS :—

4 feet, in the Chinese Styles, from £3 per fold. | 4 feet, in various Modern Styles, £5 to £8 per fold.
6 feet, ditto from £5 ditto. | 6 feet, ditto £6 to £10 ditto.

FOLIOS—*See* BLOTTING BOOKS.

FOOTSTOOLS :—

En suite with Chairs, from 10*s.* to 60*s.*

GLOVE BOXES :—

Inlaid Pearl Flowers, in the various approved Styles, from 10*s.* 6*d.* to 30*s.*
Of ornamental Form and elaborate Styles, from 15*s.* to 40*s.*

HAND SCREENS :—

Inlaid Pearl Flowers, from 7*s.* to 18*s.* per pair.
Inlaid Pearl and Gold, from 8*s.* 6*d.* to 20*s.* per pair.
Painted Flowers or Fruit, from 10*s.* to 25*s.* per pair.
Painted Views, from 12*s.* 6*d.* to 30*s.* per pair.
Painted Subjects, from 18*s.* to 40*s.* per pair.
Inlaid Pearl Sea Shells, from 12*s.* 6*d.* to 30*s.* per pair.
Rich and elaborate, from 25*s.* to 60*s.* per pair.
Handles suitable, from 2*s.* 6*d.* to 10*s.* per pair.

Fig. 12.

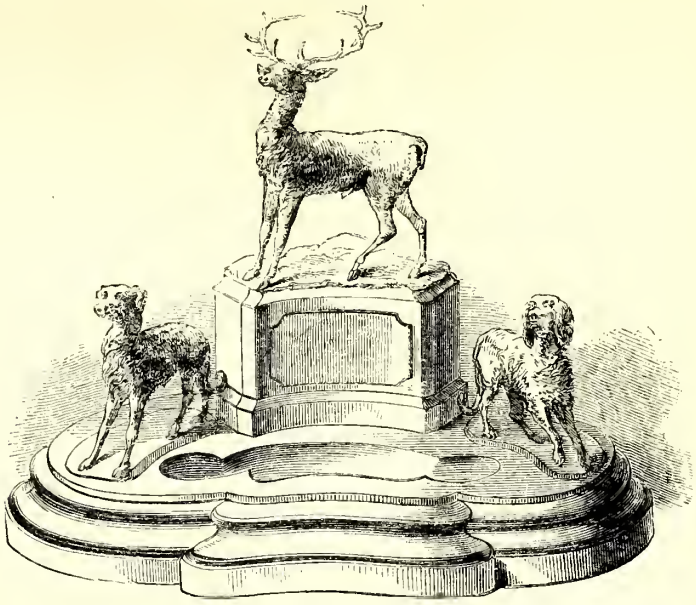


Fig. 13.

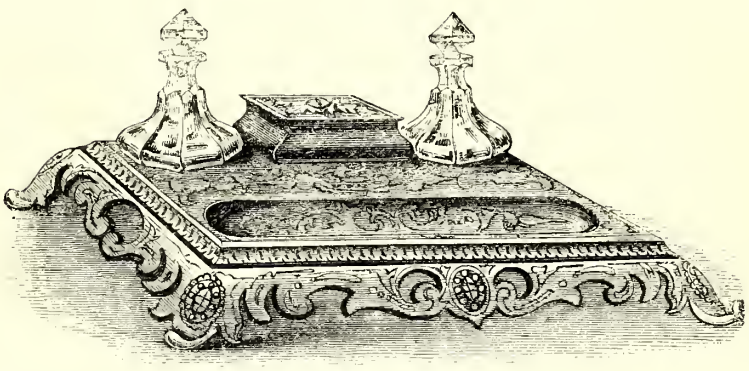
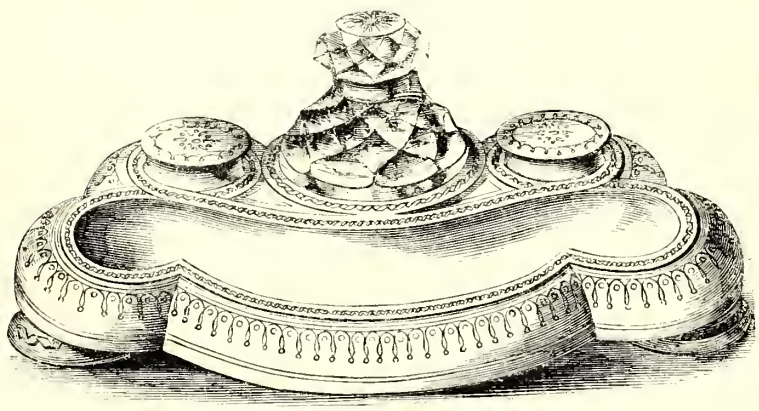


Fig. 14.



Redgrave Inkstand.

INKSTANDS (see Figs. 12, 13, 14) :—

In Figure 12, the Stag and Dogs are in Bronze ; the Stand and Box in Papier Maché (Plain Black); the Cover of Box on which the Stag is fixed forms a Paper-weight; £10.

The "Oxford Inkstand" is also Plain Black, of an oblong square form, massive, size 16 inches, fitted with one massive Ink-glass, with Gilt Hinge, and two Wafer-boxes ; 10-in. 18*s*., 12-in. 24*s*., 14-in. 32*s*.

The "Universal Inkstand" is also Plain Black, of an oblong square form, with handsome moulding and rounded corners; 10-in. 6*s*. 6*d*., 11-in. 8*s*., 12-in. 10*s*., 13-in. 13*s*., 14-in. 14*s*.

The 10-inch has one Glass and one Pen-tray. The 11-inch has two Glasses and one Pen-tray. The 12, 13, and 14-inch have two Glasses and two Pen-trays each.

The Ornamented Inkstands are as follow (sizes from 4 to 14 inches) :—

Inlaid Pearl Flowers, from 2*s*. to 25*s*.
Inlaid Pearl and Gold, Inlaid Pearl and Illuminated, from 3*s*. 6*d*. to 35*s*.
Painted Views, &c., from 5*s*. to 50*s*.
Patent Inlaid Gems, from 40*s*. to 100*s*.
Rich and elaborate, from 40*s*. to 100*s*.
Ditto, extra large sizes, &c., from 70*s*. to £10.

Fig. 13 is of an elegant form, with two Ink-glasses (Gilt Hinges), richly ornamented with Inlaid Pearl, Gold, and Colours; 10-inch, 55*s*.; 12-inch, 65*s*.

Fig. 14, designed by R. Redgrave, Esq., R.A., has a richly Cut Ink-glass, with Engraved Gilt Hinges, and is chastely ornamented with Inlaid Pearl—the effect of this article is quite unique; 80*s*., size 14 inches.

Note.—These Inkstands may be richly ornamented in any of the approved styles, at the prices quoted.

JEWEL BOXES :—

Ornamented in the various Approved Styles and of Elegant and Modern Forms, 10-in. from 10*s*. to 20*s*., 11-in. 15*s*. to 30*s*., 12-in. 20*s*. to 40*s*.
Elaborate Styles, from 60*s*. to £10.

MATCH CUPS :—

Plain Black, from 2*s*. 6*d*. to 5*s*. per pair.
Inlaid Pearl Flowers, and the various Approved Styles, from 4*s*. to 10*s*. per pair.
Painted with Dogs' Heads, from 10*s*. to 15*s*. per pair.
Elaborately Decorated, from 15*s*. to 30*s*.

MATCH BOXES :—

Inlaid Pearl Flowers, and the various Approved Styles, from 2*s*. to 6*s*.

MEMORANDUM BOOKS :—

Inlaid Pearl Flowers, and the various Approved Styles, from 3*s*. to 10*s*.
Rich and elaborate, from 12*s*. to 25*s*.

MULTIFORMIAS (see Fig. 15), *i. e.* Table, Screen, and Reading-desk combined :—

Inlaid Pearl Flowers, and the various Approved Styles, from 50*s*. to 80*s*. each.
Rich and elaborate, from 80*s*. to 140*s*. each.

NEEDLE CASES :—

Inlaid Pearl Flowers, from 2*s*. 6*d*. to 7*s*. each.
Inlaid Pearl and Gold, from 3*s*. 6*d*. to 10*s*. each.

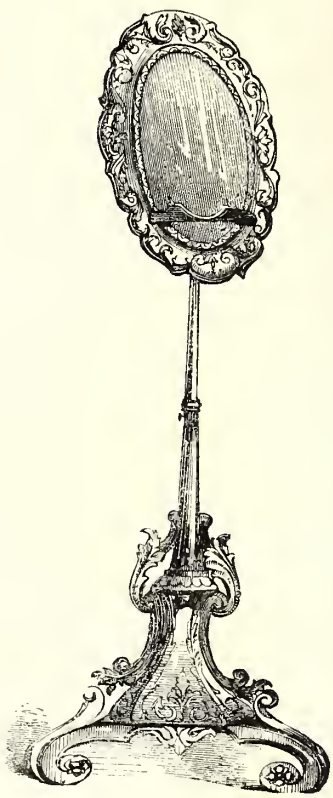
NETTING BOXES (see Fig. 24) :—

Inlaid Pearl Flowers, from 5*s*. 6*d*. to 16*s*.
The various Approved Styles, from 10*s*. to 25*s*.
Rich and elaborate, from 25*s*. to 63*s*.

OTTOMAN STOOLS :—

En suite with the Chairs, from 20*s*. to 60*s*.

Fig. 15.



PAPETERIES :—	10-Inch.	12-Inch.	13-Inch.
Inlaid Pearl Flowers	from 15*s.* to 30*s.*	20*s.* to 40*s.*	30*s.* to 55*s.*
Richly Inlaid Pearl and Gold Pearl Moonlight Landscapes Painted Views and Subjects Tortoiseshell Ground with Pearl, &c. Pearl with Malachite Pearl and Gold, &c. &c.	do. 20*s.* to 40*s.*	30*s.* to 50*s.*	40*s.* to 70*s.*
Patent Inlaid Gems	do. 45*s.* to 70*s.*	65*s.* to 84*s.*	75*s.* to 126*s.*
Rich and elaborate	do. 50*s.* to 80*s.*	70*s.* to 90*s.*	80*s.* to 140*s.*

Extra large sizes, &c., from £5 to £20.

PORTE MONNAIES :—
Inlaid Pearl Flowers, from 2*s.* 6*d.* to 5*s.* with snap; 3*s.* 6*d.* to 8*s.* with clasp.
Inlaid Pearl and Gold, &c., from 3*s.* 6*d.* to 8*s.* with snap; 5*s.* to 10*s.* with clasp.
Rich and elaborate, from 5*s.* to 10*s.* with snap; 7*s.* 6*d.* to 15*s.* with clasp.

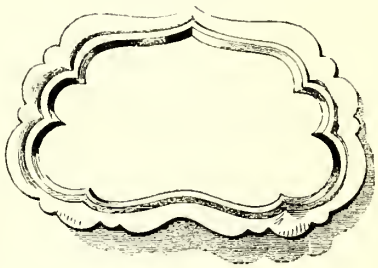
PEN TRAYS :—
Black, from 12*s.* to 84*s.* per dozen.
Inlaid Pearl Flowers, and the various Approved Styles, from 18*s.* to 60*s.* per dozen.
Rich and elaborate, from 84*s.* to 120*s.* per dozen.

POLE SCREENS :—
From 25*s.* to 100*s.* per pair, Shields only.
Stands to match, from 40*s.* to 60*s.* per pair.

RETICULES :—
In varied Styles of Decoration, 6-in. 6*s.* to 10*s.*, 7-in. 7*s.* to 12*s.*, 8-in. 8*s.* to 15*s.*

SOFAS :—
In simple Forms and Styles of Decoration, from £9 to £15.
Luxurious and rich Styles, from £15 to £35.

Fig 16.



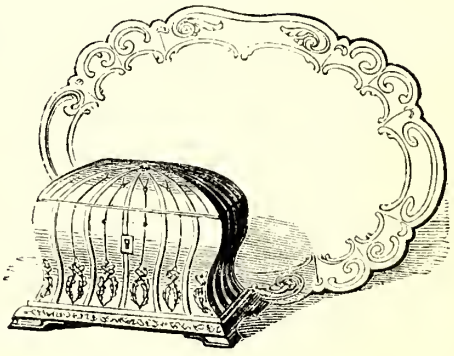
SECRETAIRES :—
In simple Forms and Styles, £7 to £10.
In more ornamental Styles, £10 to £30.

SOFA TABLES—
Of graceful Forms and Styles of Decoration, suitable to other Furniture, at Prices varying from £6 to £15. Rich and elaborate, £10 to £30.

STEREOSCOPES :—
Plain Black, from 10*s.* 6*d.* to 12*s.* 6*d.* each.
Decorated, from 12*s.* 6*d.* to 18*s.* each.

SNUFFER TRAYS :—
Plain Gold Lines, from 24*s.* to 36*s.* per dozen.
Ornamental Forms and more richly decorated, from 36*s.* to 48*s.* per dozen.
Iron and Tin Japanned, 12*s.* to 24*s.* per dozen.

Fig. 17.



TABLES—CIRCULAR, OBLONG, AND OVAL FORMS (sizes from 20 to 26 inches) :—
Inlaid Pearl Flowers, from 20*s.* to 75*s.*
Inlaid Pearl and Gold, from 25*s.* to 84*s.*
Painted Views, from 25*s.* to 84*s.*
Painted Subjects, from 50*s.* to 100*s.*
Rich and elaborate, from £6 to £12.
Mem.—Loo and other large-sized Tables at Prices proportionate with the above.

TEA TRAYS, IRON :—
In the various approved Styles, from 7*s.* 6*d.* to 25*s.* per set.
Rich and elaborate, from 30*s.* to 50*s.* per set.

TEA TRAYS (see Figs. 16 and 17) :—

Are manufactured of such infinite Varieties of Style and Quality that it is only possible to give in this List a very general idea of Prices; but—

Sets of 1 each, 16, 24, and 30 inch, vary from 15*s.* to £20.

The Figure 16 represents an elegant Tray, ornamented in Lines and Scrolls, at 80*s.* per set.

The Figure 17 represents a more usefully-shaped Form, which, ornamented in same Style, is 70*s.* per set.

TEA CADDIES (see Figs. 4 and 17) :—

Inlaid Pearl Flowers and the various Approved Styles, 6-in. from 8*s.* to 14*s.*, 7-in. 10*s.* to 18*s.*, 8-in. 12*s.* 6*d.* to 25*s.*

Rich and elaborate, 6-in. from 14*s.* to 21*s.*, 7-in. 20*s.* to 30*s.*, 8-in. 28*s.* to 42*s.*

Fig. 4 represents an 8-inch, of elegant Form, richly Inlaid and Gilt, with Enamelled Colours, 40*s.*

Fig. 17 represents a 9-inch, of chaste character, Inlaid with Pearl Lines and Gold, 35*s.*

TEA CHESTS (see Fig. 22) :—

Inlaid Pearl Flowers, with Glass Basin, from 30*s.* to 60*s.*

The various Approved Styles, from 40*s.* to 70*s.*

Rich and elaborate, from 60*s.* to 80*s.*

Fig. 22 represents a richly Inlaid Pattern of Grecian Form, 80*s.*

TEA POYS :—

Varied Shapes and Styles of Decoration, from 80*s.* to 200*s.*

VASES (see Figs. 4 and 24)—

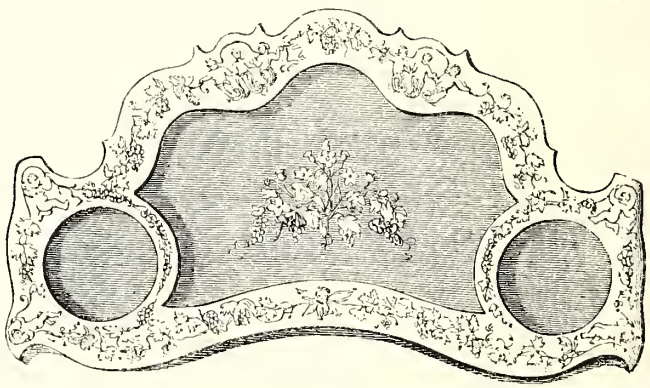
Of varied Classic and other Elegant Forms, ornamented in a great variety of Styles, in Sizes from 10 to 50 inches in height, and Prices from 10*s.* to £20 each.

WINE TRAYS (see Fig. 19) :—

Ornamented in various Styles, from 30*s.* to 100*s.*

Fig. 19 represents a Design by R. Redgrave, Esq., R.A., of Bacchanal Figures in Cameo, with Pearl and Gold Vine Wreath, on Maroon Ground, price 60*s.*

Fig. 19.



WORK TABLES (see Figs 21, 23, and 24) :—

Inlaid Pearl Flowers, fitted with Instruments, from £4 to £10.

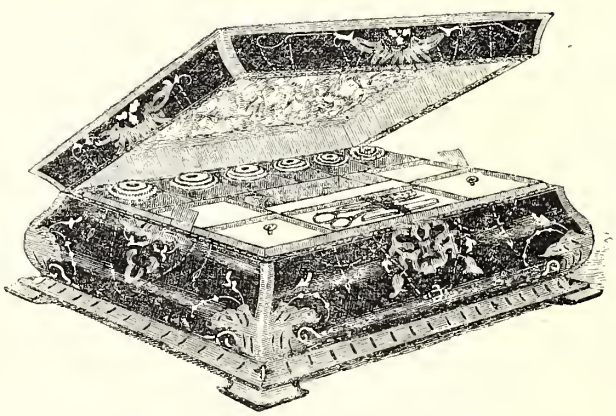
Ornamented in varied Styles and Qualities, fitted with Instruments, &c., &c., from £8 to £20. Rich and elaborate, £15 to £30.

Fig. 21 represents a Table designed from the "Hare Bell" Flower, and appropriately ornamented, Pearl and Gold, £12.

Fig. 23 represents a Table designed from the "Convolvulus" Flower, and appropriately ornamented, Pearl and Gold, £10.

The Table in Group 24 is novel in Form and very richly decorated, £16.

Fig. 20.



WRITING DESKS (see Group 24):—

	10-Inch.	11-Inch.	12-Inch.	13-Inch.
Inlaid Pearl Flowers .	from 16*s.* to 30*s.*	20*s.* to 35*s.*	24*s.* to 40*s.*	30*s.* to 50*s.*
Ornamental Forms and more richly decorated .	do. 20*s.* to 35*s.*	25*s.* to 45*s.*	30*s.* to 50*s.*	35*s.* to 70*s.*
Painted Views, Subjects, &c., &c. . . .	do. 20*s.* to 40*s.*	25*s.* to 50*s.*	30*s.* to 60*s.*	35*s.* to 70*s.*
Patent Inlaid Gems .	do. 45*s.* to 75*s.*	55*s.* to 90*s.*	65*s.* to 120*s.*	75*s.* to 140*s.*
Rich and elaborate .	do. 50*s.* to 80*s.*	60*s.* to 100*s.*	70*s.* to 140*s.*	80*s.* to 160*s.*

Larger Sizes, &c., from £5 to £20.

WRITING TABLES:—

Varied Styles ensuite with other Furniture, from £6 to £15.

WAITERS (CIRCULAR, FOR HANDING):—

Gold Lines, Scrolls, &c.,

6-Inch.	7-Inch.	8-Inch.	10-Inch.	12-Inch.	14-Inch.
1*s.* 9*d.* to 3*s.* 6*d.*	2*s.* to 4*s.*	2*s.* 3*d.* to 4*s.* 6*d.*	2*s.* 9*d.* to 5*s.* 6*d.*	3*s.* 3*d.* to 6*s.* 6*d.*	3*s.* 9*d.* to 7*s.* 6*d.*

Rich and elaborate,

6-Inch.	7-Inch.	8-Inch.	10-Inch.	12-Inch.	14-Inch.
4*s.* to 9*s.*	5*s.* to 10*s.* 6*d.*	5*s.* 6*d.* to 12*s.*	7*s.* to 15*s.*	7*s.* 6*d.* to 18*s.*	8*s.* to 21*s.*

WAITERS (IRON):—

Metal and Gold Ornaments, &c.,

6-Inch.	7-Inch.	8-Inch.	10-Inch.	12-Inch.	14-Inch.
1*s.* 1*d.* to 1*s.* 9*d.*	1*s.* 3*d.* to 2*s.*	1*s.* 5*d.* to 2*s.* 6*d.*	1*s.* 8*d.* to 2*s.* 9*d.*	1*s.* 11*d.* to 3*s.* 6*d.*	2*s.* 2*d.* to 4*s.*

Rich and elaborate,

6-Inch.	7-Inch.	8-Inch	10-Inch.	12-Inch.	14-Inch.
2*s.* 3*d.* to 3*s.* 9*d.*	2*s.* 6*d.* to 4*s.* 3*d.*	2*s.* 9*d.* to 4*s.* 9*d.*	3*s.* 3*d.* to 6*s.*	3*s.* 9*d.* to 7*s.* 3*d.*	4*s.* 3*d.* to 8*s.* 6*d.*

WATCH STANDS:—

Varied Forms, Sizes, and Styles of Decoration, from 10*s.* to 50*s.*

WATCH CASES:—

In varied Forms, Sizes, and Decorations, from 10*s.* to 50*s.*

WORK BOXES:—

Inlaid Pearl Flowers,

7-Inch.	8-Inch.	9-Inch.	10-Inch.	11-Inch.	12-Inch.
12*s.* to 20*s.*	14*s.* to 24*s.*	16*s.* to 30*s.*	19*s.* to 35*s.*	22*s.* to 45*s.*	25*s.* to 50*s.*

Richly Inlaid Pearl and Gold; Inlaid Pearl Sea Shells; Painted Views, &c., &c.,

7-Inch.	8-Inch.	9-Inch.	10-Inch.	11-Inch.	12-Inch.
25*s.* to 30*s.*	30*s.* to 40*s.*	35*s.* to 45*s.*	45*s.* to 55*s.*	55*s.* to 65*s.*	60*s.* to 80*s.*

Patent Inlaid Gems,

7-Inch.	8-Inch.	9-Inch.	10-Inch.	11-Inch.	12-Inch.
35*s.* to 40*s.*	45*s.* to 55*s.*	50*s.* to 70*s.*	60*s.* to 84*s.*	70*s.* to 100*s.*	84*s.* to 120*s.*

Rich and elaborate,

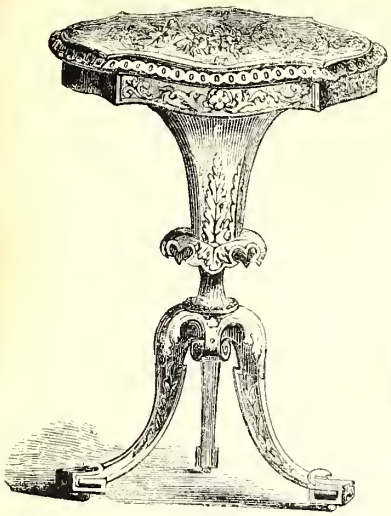
7-Inch.	8-Inch.	9-Inch.	10-Inch.	11-Inch.	12-Inch.
40*s.* to 50*s.*	50*s.* to 60*s.*	60*s.* to 80*s.*	70*s.* to 100*s.*	80*s.* to 120*s.*	90*s.* to 140*s.*

Large Sizes, &c., &c., from £5to £20.

Fig. 20 is a very elegant Form, richly ornamented with Inlaid Pearl, Gold, and Colours, lined Satin, fitted Silver Instruments, and Pearl Reels, £6 6*s.*

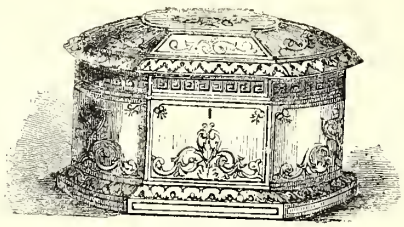
The same Box, less elaborately ornamented, from £4 to £5.

Fig. 21.



Work-Table, Hare-bell Design.

Fig. 22.



Tea Chest.

Fig. 23.

Work-Table, Convolvulus Design.

Fig. 24.

Group, consisting of Work-Table, Crotchet and Netting Box, Flower Stand, Vase, and Writing Desk.

TOTAL > HML=

$7819